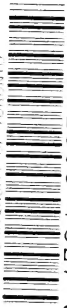
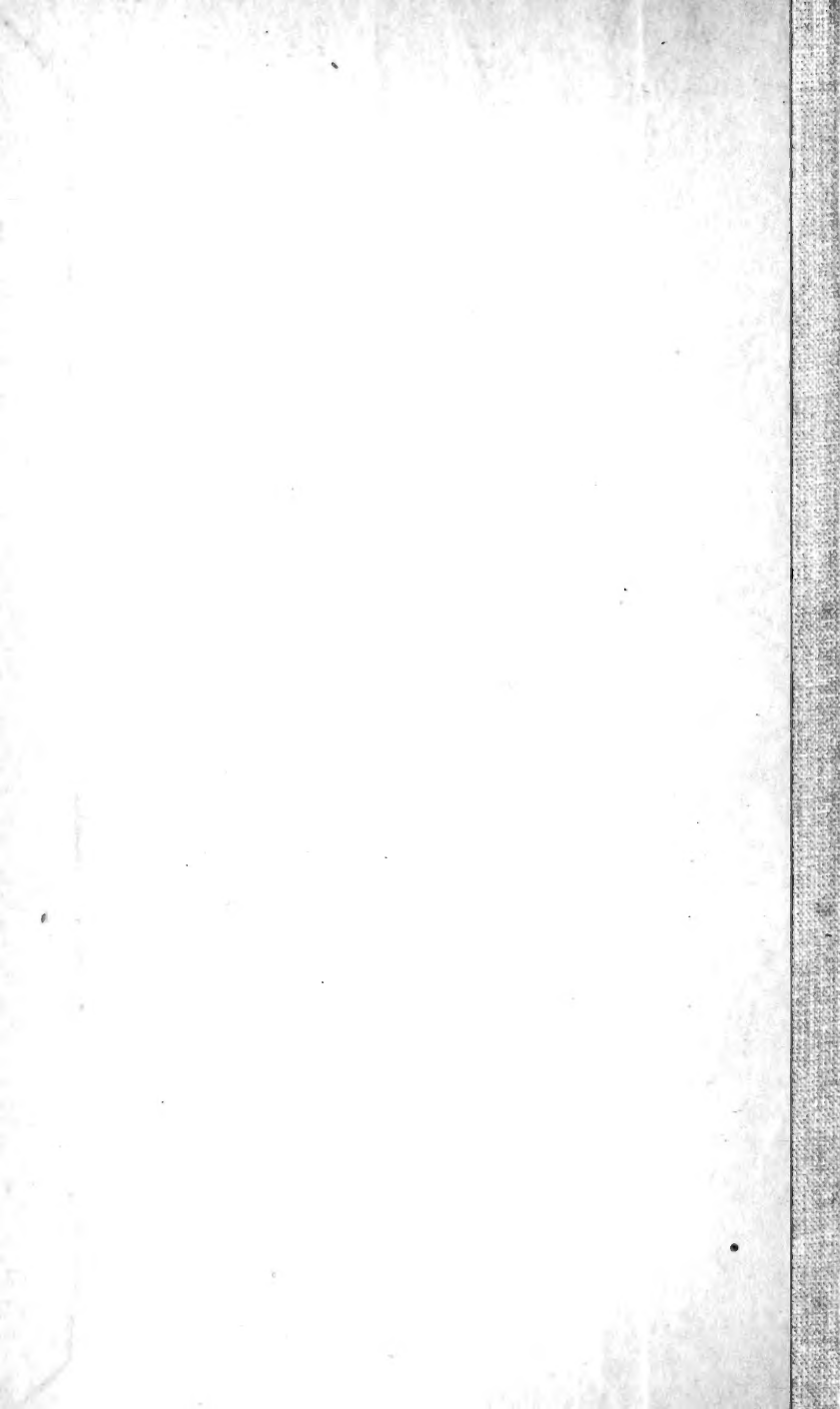


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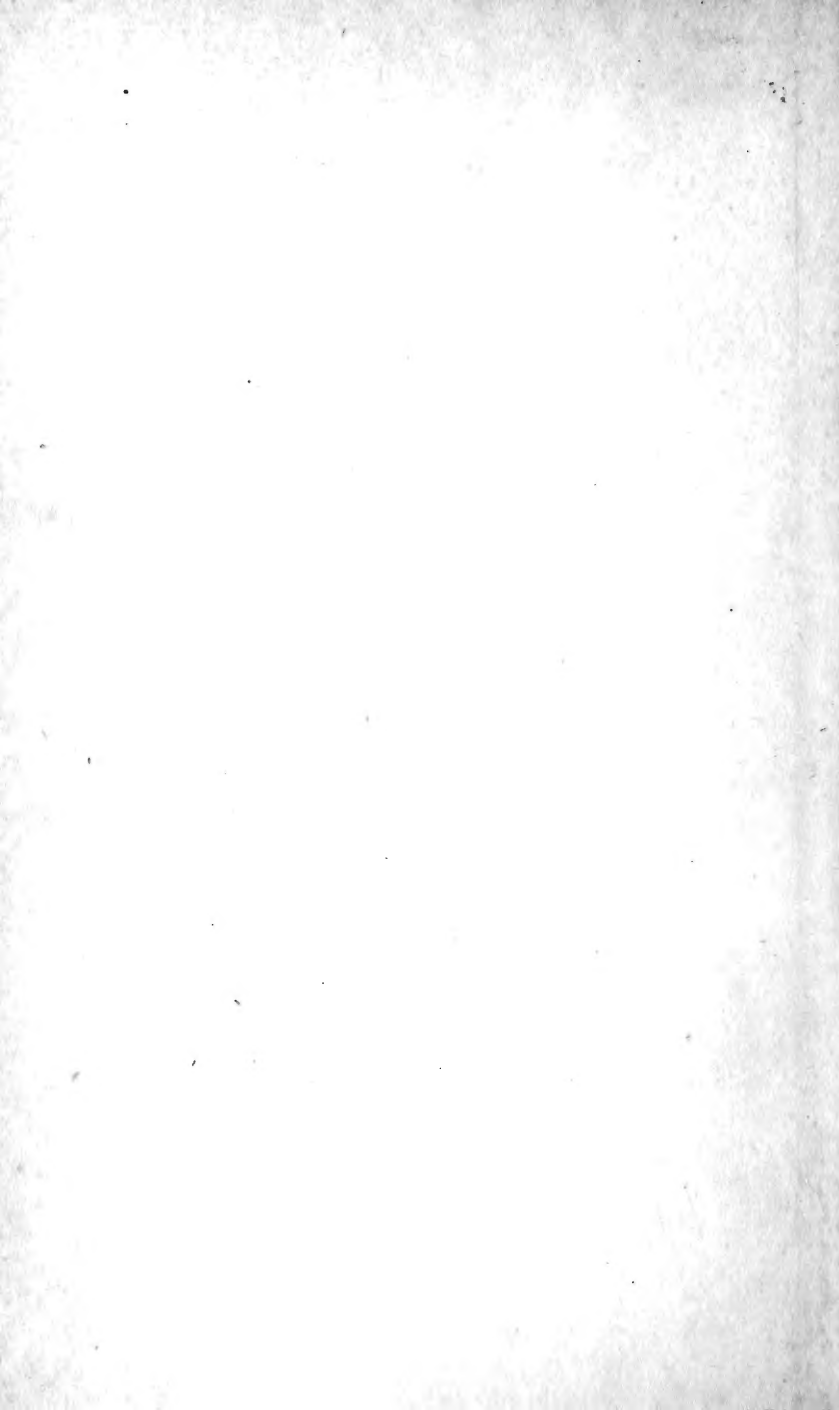


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ROYAL BOTANIC GARDENS, KEW.

HAND-LIST

OF

FERNS AND FERN ALLIES

CULTIVATED IN

THE ROYAL BOTANIC GARDENS.

(SECOND EDITION.)



LONDON:

SOLD AT THE ROYAL BOTANIC GARDENS, KEW.
PRINTED FOR HIS MAJESTY'S STATIONERY OFFICE,
BY DARLING & SON, LTD., 34-40, BACON STREET, E.

1906.

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PREFACE.

THE general purpose of the series of Hand-lists of the plants cultivated in the Royal Gardens which is in course of publication, and of which the present one is a part, is sufficiently indicated in the preface to that which enumerates the trees and shrubs.

The collection of Ferns, whether tropical or temperate, is perhaps, next to that of Palms, the most important feature of the cultivation under glass in the Royal Gardens.

A special interest attaches to it, because it has been used so much in the preparation of most of the books and papers dealing with ferns which have been published in this country during the last half century. The celebrated botanical artist, Francis Bauer, was resident draughtsman for 50 years (1790-1840) to the Royal Botanic Gardens at Kew, and the beautiful series of analytical drawings of ferns which he made were published by Sir William Hooker, after his death in 1842, with descriptive letter-press and additions, under the title of *Genera Filicum*. During the 25 years (1840-1865) for which Sir William Hooker was the director of the gardens, his attention was specially concentrated on ferns. Under the title of *Species Filicum* he published an elaborate work in five

volumes, in which all the known species of typical ferns are fully described, and their synonymy and geographical distribution worked out, with copious illustrations by Mr. Walter Fitch. Of this, the first volume appeared in 1846, and the last in 1864. He planned also a condensed hand-book of all the known ferns, to be called *Synopsis Filicum*, intended specially for the use of colonists and travellers. All the drawings for this had been made, but the letter-press was not far advanced when he died in the autumn of 1865. It was completed by Mr. J. G. Baker, F.R.S., now Keeper of the Herbarium, in 1868, and a second edition was brought out in 1874. Since that date many hundred new species have been discovered, and a volume of Hooker's *Icones Plantarum*, containing plates and descriptions of the more interesting of the novelties, was published in 1887. Mr. Baker has also published in the *Annals of Botany* (1891) a summary of new ferns discovered or described since 1874. The type specimens from which most of the descriptions and plates contained in this series of books have been made are deposited in the Kew Herbarium.

The living collection in the garden owes its completeness very largely to the zeal and assiduity with which the veteran pteridologist, Mr. John Smith, curator of the Royal Gardens from 1841-63, watched over it for more than 40 years.

In his privately printed *Records of Kew* (pp. 322, 323) he gives the following particulars of its origin and development :—" In the year 1822 I found the collection of ferns at Kew extremely poor, especially as regards tropical species, very many of those introduced in previous years

having been lost and very few new ones added. . . . The tender exotic species were more or less of them growing without any arrangement in different houses, and unnamed, their number amounting to about 40. In 1825 I arranged the tropical species in a group at the end of the then lean-to house . . . now included in the tropical fern house, the area they occupied being 6 ft. by 12 ft. These formed the nucleus of the now great collection. They were successively added to by importations of living plants, as also plants raised from spores obtained from herbarium specimens."

"The collection continued yearly to increase, and in 1846 [1845] I drew up a list of the collection, which was published in an appendix to the *Botanical Magazine*, for that year; the number then amounted to 400 [378] species. This in 1857 [1856] was followed by another list, entitled 'Catalogue of Cultivated Ferns,' in which 600 [504] species are enumerated."

The principal books published by Mr. Smith are his *Ferns, British and Foreign*, issued in 1866, which contains a classified list of all the species then known in cultivation, full directions for the cultivation of ferns of the different climatic types and by far the most complete history of their gradual introduction which has ever appeared in print, and his *Historia Filicum*, issued in 1875, which contains woodcuts of 220 types and gives a full exposition of his views on fern classification.

In 1868 the last published list was prepared by Mr. J. G. Baker. It enumerates 802 species and varieties of ferns and 48 of fern allies.

The present list comprises 1116 species and varieties of ferns and 97 of fern allies ; this is exclusive of British ferns, of which 586 varieties are in cultivation.

The collection falls into three great groups :—(i.) Tropical ; (ii.) Temperate ; and (iii.) Hardy Ferns.

The Tropical Ferns are cultivated in No. II. House.

The Temperate Ferns are cultivated in No. III. ; the Filmy Ferns have a separate House (No. II. A), constructed for the special treatment which they require. The fine collection of Temperate Tree Ferns is contained in the Temperate House.

The Hardy Ferns are arranged on and about a small rockery, $\frac{7}{E}$ of the Key Plan, and forming the south boundary of Lawn L.

The structural development of the buildings in which the collection is housed has kept pace with its growth. Their history may be given briefly.

The Tropical Fern House (No. II.) is a span-roofed house 129 feet long, 34 feet broad, and 15 feet high in the centre. It has a wide transept on the south side, 40 feet long, 33 feet wide, and 19 feet high.

In 1841 the site of this house was occupied by two lean-to houses used for miscellaneous collections of stove plants. They are enumerated in Dr. Lindley's Report to the Treasury (1838) as Nos. 2 and 3 ; the former stood to the west, and was 50 feet long ; the length of the other

was 60 feet. It was in No. 2 that, as stated above, John Smith first arranged the nucleus of the collection of Tropical Ferns.

In 1843, No. 2 was doubled and made into a span house.

In 1845, No. 3 was entirely taken down, and a new span-roofed house erected in its place. It joined on to No. 2, which was kept at a somewhat lower temperature, but opened into it through a partition. The centre was filled up with slate shelf staging, and the sides with stone shelves. No. 2 was used as a stove for rare palms and large tropical ferns. No. 3 was at first occupied by the Woburn collection of orchids presented by Her Majesty the Queen; for this purpose it proved eventually unsuited. The orchids were gradually replaced by *Aroideæ* and ferns. Ultimately the latter obtained possession of the whole house. According to John Smith (Records, p. 334), "the centre of the house was a raised sloping rockery, amongst which the plants were growing in a natural state, forming fine bushy specimens."

A small house for tree ferns was built in 1861; this was connected with the principal house in 1868, and now forms the transept.

In 1879 the Tropical Fern House, which from the decay of the timbers had lapsed into an almost ruinous condition, was further severely damaged by the hail storm of August 3rd; 1,152 panes of glass in it were broken. It was subsequently put into a thorough state of repair, but the collections received considerable damage.

In 1887 the west end of the house was set back a few feet; the staging was partly re-arranged and the broad path through the transept was made.

The humid conditions necessary for the cultivation of tropical ferns are unfortunately not conducive to the preservation of the structures in which they are grown when they are built of wood. In 1889 it therefore again became necessary to renew the east wing of No. II. House. In order to secure greater durability it was decided to use iron for the principal framework, and wood only for the lights. The top ventilation was provided for by means of a lantern instead of by the older and more clumsy method of sliding sashes. At the same time the use of green glass in the reconstructed wing was abandoned. This was introduced at Kew in 1846 on the recommendation of the late Mr. Robert Hunt, F.R.S., who advocated its use on theoretical grounds which are now known to be mistaken. The resulting improvement in the growth of the plants, especially the species of *Adiantum* was very marked, and in 1892 a portion of the west wing was re-glazed with equally satisfactory results.

The temperate ferns are now collected in a house (No. III.), which was also built on the system of mixed iron and wood construction. It was erected in 1892 to take the place of a decayed and obsolete structure composed of two small greenhouses united together, Nos. 4 and 5 of Dr. Lindley's report. The former (the northern wing) was erected in 1803, and in 1840 contained New Holland and Cape plants; the latter, which was "re-modelled" in 1825, was filled with succulents.

The reconstructed No. III. is a span-roofed house 60 feet long, 23 feet wide, and 13 feet high. It contains a broad central and two side stages, with paths on both sides.

The north wing of the former No. III. had been latterly devoted almost exclusively to filmy ferns after the Kew collection had been enriched by the gift of that formed by the late John Cooper Forster, which was presented to the Royal Gardens in 1888 by his widow.

The collection is now contained in the new Filmy Fern House (No. II. A.) erected on the north side of No. II. It is 50 feet long by 14 feet wide, with a central path and two cases running the full length of the house.

The hardy ferns occupy the rockery originally devoted to Alpine plants (before the construction of the Rock Garden in 1882), and it extends over part of the adjacent ground. A collection was established here in 1874, and the rockery itself was reconstructed in 1888.

The collection as a whole is now probably the richest in existence in garden forms of British species. This is due to the munificent bequest by W. C. Carbonell, Esq., of the extensive collection formed by him at Rhiw Castell, Usk, Monmouthshire. The whole was removed to Kew in 1887. It consisted of 4,261 specimens, many probably unique, besides some hundreds of seedlings.

The total number of well-marked species of ferns and the vascular Cryptogamia (fern allies) now mounts up to 3,500. Not more than one-third of these have been

brought into cultivation, and Kew is always glad to receive any additions, if possible in the form of well-established plants; if not, in the shape of dry spores, which can be collected and sent very easily by post in small packets.

The following table, which shows the percentage of the total number of ferns found in different parts of the world was drawn up by Mr. Baker in 1867; but he does not think that the discoveries of the last 20 years will have altered any of the figures materially :—

Arctic Zone	...	...	...	1 per cent.
Europe	...	...	...	4 „
Temperate Asia, including Himalayas	...	...	...	18 „
Temperate N. America	...	...	...	5 „
Temperate S. Africa	...	...	...	7 „
Australia and New Zealand	...	...	...	9 „
South temperate America	...	...	...	5 „
Tropical Africa	...	...	...	15 „
Tropical Asia	...	...	...	39 „
Tropical America...	...	...	...	42 „

The present hand list is divided into three parts :—

- (i.) Ferns proper (pp. 13–133);
- (ii.) Fern allies (pp. 135–143); and
- (iii.) as an appendix, a list of garden forms of British species (pp. 145–183).

With regard to (i.) ferns proper, the arrangement is alphabetical and synonyms have been only sparingly introduced, those included being chiefly such as are in

use in gardens and which are here referred to the correct name in each case. It has not been thought necessary, therefore, to supply an index. Those who wish to pursue the study of fern-nomenclature further may fall back on Hooker and Baker's *Synopsis Filicum*, upon which the present hand-list is substantially based.

The fern allies (ii.) have also been grouped alphabetically. It has not been thought necessary for the present purpose to separate them according to a botanical classification.

The cultivated and feral varieties of British ferns (iii.) have been enumerated in an appendix. Although the collection of them at Kew is very rich, they stand in a different position to the collection of recognised and well-determined species. Apart from their intrinsic beauty, which is often striking, they are of considerable scientific interest as showing the range of variation due to crossing and seminal reproduction. The amateurs and cultivators who have raised them have furnished them with Latin names, often cumbrous and fantastic, which have received no formal definition. They cannot, therefore, be fixed or quoted for any scientific purpose; they have, in fact, the same relationship to the species from which they have originated as bedding pelargoniums bear to *Pelargonium zonale* or as the drumhead and other cabbages to *Brassica oleracea*.

PREFACE TO SECOND EDITION.

THE edition of the *Hand-List of Ferns and Fern-Allies cultivated in the Royal Gardens* which was issued in 1895 has for some time been exhausted. Since its publication some change has taken place in the composition of the Fern-collection. The present edition, the preparation of which for the press has been entrusted to Mr. C. H. Wright, A.L.S., Assistant in the Herbarium, is an attempt to enumerate the species and varieties now in cultivation at Kew. The species that have been acquired since 1895 are here included; those that are not now in cultivation at Kew have been omitted. A few casual errors that had crept into the previous edition have been corrected. To facilitate the identification of the plants selected references have been given to publications in which reliable figures are to be found. In other respects the present edition follows the lines on which the edition of 1895 was prepared.

The table drawn up by Mr. J. G. Baker, F.R.S., in 1867, to show the percentage of the total number of ferns that had been collected up to that time in different parts of the world, which is included in the preface to the 1895 edition of this hand-list, is found, in the light of our present knowledge of the groups dealt with, to require revision. It will not be possible, until some general list, such as Carl Christensen's admirable *Index Filicum* (now in course of publication) is available,

to give absolute percentages. But the subjoined table, which may be taken as approximately accurate, will, it is hoped, be useful both in itself and for comparison with Mr. Baker's table, which remains of great historical interest :—

Arctic Zone	·4 per cent.
Europe	2·5 „
Temperate Asia, including the Himalayas above 8,000 ft. ...	25·5 „
North Africa, Canary Is. ...	·8 „
Temperate N. America	3·2 „
Temperate S. Africa	4·5 „
Australia and New Zealand ...	6·9 „
Polynesia	10·8 „
Temperate S. America	2·7 „
Tropical Africa and Mascarene Is.	15·2 „
Tropical Asia	34·8 „
Tropical America	46·4 „

D. P.

Kew. March, 1906.



I.—FERNS.

Acrophorus. See *Davallia*.

Acrostichum, *L.*

A. acuminatum, *Hook.* Brazil.

A. alienum, *Sw.* West Indies, Tropical America.

A. apodum, *Kaulf.* West Indies, Tropical America and Chile. *Hook. & Grev. Ic. Fil. t. 99.*

A. aureum, *L.* Tropical and sub-tropical regions.

A. auritum, *Sw.* Malaya, *Polybotrya aurita*, *Bl. :*
Hook. Fil. Exot. t. 81.

A. Burchellii, *Baker.* Brazil.

A. buxifolium, *Kze.* See *sorbifolium*, var.

A. Cænopteris, *Kze.* Tropical America.

A. callæfolium, *Bl.* See *latifolium*, var.

A. cervinum, *Sw.* Tropical America. *Olfersia cervina.*
Kze ; Hook. Fil. Exot. t. 43.

A. conforme, *Sw.* Tropical and sub-tropical regions.

A. crassinerve, *Kze.* See *latifolium*, var.

A. crinitum, *L.* West Indies and Central America.
Hook. & Grev. Ic. Fil. t. 1.

A. crispatulum, *Wall.* See *virens*, var.

A. cuspidatum, *Willd.* West Indies to Peru.

A. decoratum, *Kze.* West Indies, Guiana, Brazil and Peru.



Acrostichum, *L.*—*cont.*

- A. decurrens*, *Desv.* Philippines. *Gymnopteris decurrens*, *Hook.* *Gard. Ferns*, t. 6.
- A. drynarioides*, *Hook.* Penang, Solomon Isles, New Guinea.
- A. Feei*, *Bory.* West Indies to Ecuador.
- A. flagelliferum*, *Wall.* Tropical Asia. *Hook. & Grev. Ic. Fil.* t. 23.
- A. gramineum*, *Jenm.* West Indies.
- A. Herminieri*, *Bory.* West Indies to Brazil.
- A. heteromorphum*, *Kl.* Colombia and Ecuador.
- A. hybridum*, *Bory.* Tropical Africa. Tropical America.
- A. latifolium*, *Sw.* Tropics. *Hook. Fil. Exot.* t. 42.
 var. *angustifolium*, *Hort.* Tropical America.
 var. *callæfolium*, (*Bl.*) *Baker.* Java.
 var. *conopodium*, *Hort.*
 var. *crassinerve*, (*Kze*) *Baker.* Brazil.
- A. Lingua*, *Raddi.* West Indies and Tropical America.
- A. longifolium*, *Jacq.* *See latifolium.*
- A. luridum*, *Fée.* Trinidad, Guiana.
- A. magnum*, *Baker.* British Guiana.
- A. melanopus*, *Kze.* Venezuela.
- A. muscosum*, *Sw.* West Indies, Tropical America.
- A. osmundaceum*, *Hook.* West Indies, Tropical America.
- A. peltatum*, *Sw.* West Indies, Tropical America.
- A. prieurianum*, *Kl.* *See sorbifolium*, var.
- A. quercifolium*, *Retz.* Tropical Asia. *Gymnopteris quercifolia*, *Bernh.* ; *Hook. Fil. Exot.* t. 80.

Acrostichum, L.—cont.

A. repandum, Bl. Tropical Asia, Queensland and the Seychelles.

var. **quoyanum**, Baker. Moluccas.

A. rigidum, Wall. Malay Peninsula and Islands.

A. scandens, J. Sm. Tropical Asia, Queensland and Fiji.

A. Sieberi, Hook. & Grev. Ic. Fil. t. 237. Mascarene Islands.

A. simplex, Sw. West Indies, Tropical America.

A. sorbifolium, L. Tropics.

var. **buxifolium**, (Kze) Baker. Madagascar.

var. **prieurianum**, (Kl.) Baker. Guiana.

A. spicatum, L. Tropics of the Old World. *Hymenolepis spicata*, Presl; Hook. Fil. Exot. t. 78.

A. tomentosum, Bory. Bourbon.

A. undulatum, Willd. See *villosum*, var.

A. variabile, Hook. Tropical Asia.

A. villosum, Sw. Tropical America. Hook. & Grev. Ic. Fil. t. 95.

var. **undulatum**, Baker. West Indies and Mexico to Ecuador.

A. virens, Wall. Tropical Asia, Tropical Africa. Hook. & Grev. Ic. Fil. t. 221.

var. **crispatum**, Baker. India.

Actiniopteris, Link.

A. radiata, Link. Tropical Asia, Tropical Africa. Hook. Ic. Pl. t. 975.

var. **australis**, Baker. Mascarene Islands. Hook. Ic. Pl. t. 976.

Adiantopsis. See *Cheilanthes*.

Adiantum, L.

A. æthiopicum, L. Tropical and south temp. zones.
Hook. & Grev. Ic. Fil. t. 77.

var. *assimile*, (Sw.) Baker. Australia.

var. *aureum*, Hort.

A. affine, Hook. See *diaphanum*.

A. amabile, Moore. See *Moorei*.

A. aneitense, Carruth. Aneiteum.

A. assimile Sw. See *æthiopicum*, var.

A. Balfourii, Baker. Socotra. Hook. Ic. Pl. t. 1630.

A. Bausei, Moore. Garden origin. Gard. Chron. 1879,
xi. 456, figs. 69-70.

A. bellum, Moore. Bermuda, Guiana. Gard. Chron.
1879, xi. 172, fig. 24.

A. bessonianum, O'Brien. See *tenerum*, var.

A. Birkenheadii, Moore. Garden origin.

A. *Capillus-Veneris, L. Tropical and temp. zones.
Hook. Brit. Ferns, t. 41.

A. cardiochlena, Kze. See *polyphyllum*.

A. Catharinæ, J. Sm. See *trapeziforme*, var.

A. caudatum, L. Tropics. Hook. Exot. Fl. t. 104.

var. *ciliatum*, Hort.

A. chrysophyllum, Hort. See *æthiopicum*, var. *aureum*.

A. clæsiænum, L. Lind. & Rod. Brazil. Ill. Hort.
1894, 137, t. 9.

A. Collisii, Moore. Garden origin.

A. colpodes, Moore. Tropical America.

var. *elegans*, Hort.

* For garden varieties, see p. 157.

Adiantum, L.—cont.

A. concinnum, H. B. & K. Tropical America.

var. *Flemingii, Hort.*

var. *gracile, Hort.*

var. *latum, Moore.*

A. crenatum, Willd. West Indies, Mexico.

A. cristatum, L. West Indies, Tropical America.

A. cultratum, J. Sm. See *trapeziforme*, var.

A. cuneatum, Langsd. & Fisch. Tropical America
Hook. & Grev. Ic. Fil. t. 30.

var. *æmulum, (Moore) Baker.*

var. *deflexum, Hort.*

var. *dissectum, Hort.*

var. *elegantissimum, Hort.*

var. *gracillimum, (Moore) Baker.*

var. *grandiceps, Hort.*

var. *grandis, Hort.*

var. *lambertianum, Hort.*

var. *Legrandi, Hort.*

var. *mundulum, (Moore) Baker.*

var. *Pacotti, Hort.*

var. *Reginæ, Hort.*

var. *schizophyllum, Hort.*

var. *strictum, Hort.*

var. *variegatum, Hort.*

A. curvatum, Kaulf. Brazil. Hook. Sp. Fil. ii. t. 84,
fig. C.

var. *brasiliense, Baker.* Brazil.

A. cyclosorum, Moore. Ecuador.

A. decorum, Moore. See *Wagneri*.



Adiantum, L.—cont.

- A. densum, Hort.** Garden origin.
- A. diaphanum, Bl.** S. China, Malaya, Polynesia, N. Zealand and New S. Wales.
- A. digitatum, Presl.** Tropical America.
 var. **palmatum, Baker.** *A. palmatum*, Moore, Gard. Chron. 1877, vii. 40, fig. 5.
 var. **speciosum, (Hook.) Baker.**
- A. dolabriforme, Hook.** *See* *lunulatum*, var.
- A. dolosum, Kze.** Tropical America.
- A. Edgeworthii, Hook.** Northern India and China.
 Hook. Sp. Fil. ii. t. 81, fig. B.
- A. elegans, Moore.** Garden origin.
- A. emarginatum, Bory.** *See* *æthiopicum*.
- A. excisum, Kze.** Chili.
 var. **Leyi, Hort.**
 var. **multifidum, Hort.**
 var. **nanum, Hort.**
- A. farleyense, Moore.** *See* *tenerum*, var.
- A. fasciculatum, Hort.** Garden origin.
- A. Faulkneri, Hort.** Garden origin.
- A. Fergusoni, Moore.** Ceylon.
- A. formosum, R. Br.** Temperate Australia and New Zealand. Hook. Sp. Fil. ii. t. 86, fig. B.
- A. fragile, Sw.** West Indies.
- A. fulvum, Raoul.** New Zealand, N. S. Wales, Fiji.
 Hook. Sp. Fil. ii. t. 85, fig. A.
- A. Funckii, Hort.** *See* *trapeziforme*.
- A. glaucophyllum, Hook.** Central America.

Adiantum, L.—*cont.*

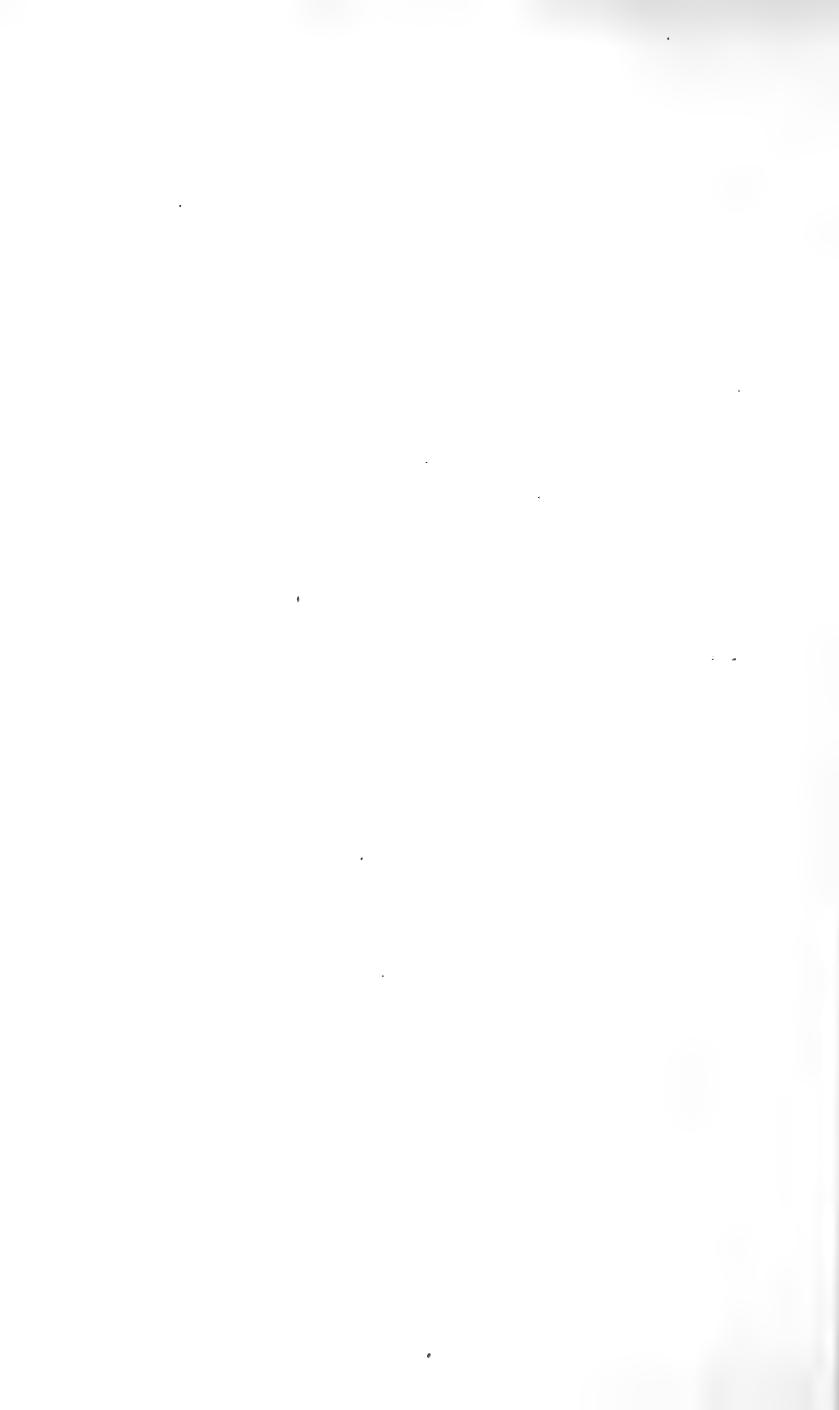
- A. grandiceps*, Hort. *See* *cuneatum*, var.
- A. henslovianum*, Hook. f. Colombia, Peru, &c.
- A. heterophyllum*, Hort. Garden origin.
- A. hirtum*, Klotzsch. Tropical America. Hook. Sp. Fil. ii. t. 82, fig. A.
- A. hispidulum*, Sw. Tropics of the Old World.
var. *tenellum*, Moore. Australia.
- A. Hosei*, Baker. Borneo.
- A. Kaulfussii*, Kze. Tropical America.
- A. kerchovianum*, Hort. Garden origin.
- A. Lathomii*, Moore. *See* *tenerum*, var.
- A. Legrandi*, Hort. *See* *cuneatum*, var.
- A. lineatum*, Linden. Garden origin. Ill. Hort. 1895, 312, t. 44.
- A. lucidum*, Sw. West Indies, Tropical America.
Hook. Sp. Fil. ii. t. 79, fig. C.
- A. luddemannianum*, Hort. Garden origin.
- A. lunulatum*, Burm. Tropics. Hook. & Grev. Ic. Fil. t. 104.
var. *dolabriforme*, Baker. *A. dolabriforme*, Hook.
Ic. Pl. t. 191.
var. *fernandezianum*, Hort.
- A. macrophyllum*, Sw. West Indies, Tropical America.
Hook. & Grev. Ic. Fil. t. 132.
var. *albostriatum*, Hort.
var. *bipinnatum*, Jenm. Jamaica.
- A. magnificum*, Hort. *See* *Wagneri*.
- A. manicatum*, Hort. *See* *concinnum*.

Adiantum, L.—cont.

- A. matthewsianum*, Hook. *See* polyphyllum.
- A. Moorei**, Baker. Andes of Peru.
- A. moritzianum*, Link. *See* A. Capillus-Veneris.
- A. mundulum*, Moore. *See* cuneatum, var.
- A. neoguineense**, Moore. New Guinea.
- A. Novæ-Caledoniæ**, Keys. New Caledonia.
- A. obliquum**, Willd. West Indies. Tropical America.
Hook. & Grev. Ic. Fil. t. 190.
- A. obtusum**, Desv. West Indies. Tropical America.
Hook. & Grev. Ic. Fil. t. 188.
- A. Pacotti*, Hort. *See* excisum.
- A. patens**, Willd. Tropical America. Hook. Sp. Fil. ii.
t. 87, fig. A.
- A. pellucidum*, Mart. & Gal. *See* æthiopicum.
- A. pedatum**, L. Temperate Asia. North America.
- A. peruvianum**, Klotzsch. Peru.
- A. plumosum**, Hort. Garden origin.
- A. polyphyllum**, Willd. Tropical America. Hook.
Gard. Ferns, t. 12.
- A. prionophyllum*, H. B. & K. *See* tetraphyllum.
- A. pulverulentum**, L. West Indies, Tropical America.
- A. Reginae*, Hort. *See* Capillus-Veneris.
- A. reniforme**, L. Madeira and Teneriffe. Hook. Fil.
Exot. t. 8.
var. *asarifolium*, Baker. Mauritius and Bourbon.
A. asarifolium, Willd. ; Hook. Fil. Exot. t. 11.
- A. rhodophyllum**, Moore. Garden origin.
- A. rhomboideum*, Hort. *See* obtusum.

Adiantum, *L.*—*cont.*

- A. roseum*, *Hort.* Garden origin.
- A. rubellum*, *Moore.* Andes of Bolivia.
- A. scabrum*, *Kze.* See *æthiopicum*.
- A. scutum*, *Hort.* See *tenerum*, var.
- A. Seemanni*, *Hook.* Central America, Brazil. Gard. Chron. 1875, iii. 396-7, fig. 77-8.
- A. sessilifolium*, *Hook.* See *henslovianum*.
- A. setulosum*, *J. Sm.* See *diaphanum*.
- A. speciosum*, *Hook.* See *digitatum*, var.
- A. Tabarum*, *Hort.* See *excisum*.
- A. tenellum*, *Moore.* See *hispidulum*.
- A. tenerum*, *Sw.* West Indies, Tropical America.
 var. *alcicorne*, *Hort.*
 var. *bessonianum*, (*O'Brien*).
 var. *farleyense*, *André.* *A. farleyense*, *Moore* : Fl. Serres, tt. 1933-4.
 var. *gracile*, *Hort.*
 var. *Lathomi*, *Hort.*
 var. *Reginæ*, *Hort.*
 var. *scutum*, *Hort.*
 var. *scutum ramosum*, *Hort.*
 var. *Victoriæ*, (*Moore*) *Baker.*
- A. tetraphyllum*, *Willd.* West Indies, Tropical America.
 var. *acuminatum*, *Hort.*
 var. *gracile*, *Hort.*
- A. tinctum*, *Moore.* Andes of Peru.



Adiantum, L.—*cont.*

A. trapeziforme, L. West Indies, Tropical America.

var. *Catharinæ*, J. Sm.

var. *cultratum*, Baker.

var. *Funckii*, Hort.

A. veitchianum, Moore. Andes of Peru.

A. velutinum, Moore. Andes of Colombia.

A. venustum, G. Don. Afghanistan and Himalaya.
Hook. Sp. Fil. ii. t. 76, fig. B.

var. *integrifolium*, Baker. Himalaya.

A. Victoriae, Moore. See *tenerum*, var.

A. Wagneri, Mett. Andes of Peru.

A. Weigandii, Moore. Garden origin.

A. Williamsii, Moore. Andes of Peru. Gard. Chron.
1878, x. 45, fig. 4.

Aglaomorpha. See *Polypodium*.

Aleuritopteris. See *Cheilanthes*.

Allosorus. See *Pellaea* and *Cryptogramme*.

Alsophila, R. Br.

A. armata, Presl. Tropical America.

A. australis, R. Br. Australia and Tasmania. Hook.
Sp. Fil. i. t. 19, fig. A.

A. contaminans, Wall. India, Malaya. Fl. des Serres,
tt. 2264–5.

A. Cooperi, Hook. Australia.

A. excelsa, R. Br. Norfolk Island.

A. infesta, Kze. Tropical America.

Alsophila, *R. Br.*—*cont.*

A. leichardtiana, *F. Muell.* Australia. Flor. & Pom. 1873, 229.

A. MacArthurii, *Hook.* *See leichardtiana.*

A. Malzinei, *Hort.* Mexico.

A. nigra, *Jenm. (an Mart.?).* Trinidad.

A. procera, *Kaulf.* Tropical America.

A. pruinata, *Kaulf.* West Indies, Tropical and Temperate S. America.

A. robusta, *De Vriese.* Java.

A. Tænitis, *Hook.* Brazil.

A. tomentosa, *Hook.* Java, Formosa.

A. truncata, *Brack.* Fiji, Samoa.

Amphicosmia. *See Hemitelia.*

Anapeltis. *See Polypodium.*

A. nitida, *J. Sm.* *See P. lycopodioides.*

Anchistea. *See Woodwardia.*

Anemia, *Sw.*

A. adiantifolia, *Sw.* West Indies, Tropical America
Hook & Grev. Ic. Fil. t. 16.

A. collina, *Raddi.* Brazil. *Hook. Fil. Exot. t. 1.*

A. dregeana, *Kze.* Natal. *Hook. Ic. Pl. t. 236.*

A. fraxinifolia, *Raddi.* *See Phyllitidis.*

A. fulva, *Sw.* *See tomentosa, var.*

A. hirsuta, *Sw.* West Indies, Tropical America.

A. longifolia, *Link.* *See Phyllitidis, var.*



Anemia, Sw.—cont.

A. Phyllitidis, Sw. West Indies, Tropical America.
Anemidietyon Phyllitidis, J. Sm.; Hook. Gen.
 Fil. t. 103.

var. *foetida*, Hort.

var. *longifolia*, Hort.

A. tomentosa, Sw. West Indies, Tropical America.
 Hook. Fil. Exot. t. 30.

var. *fulva*, Moore. Tropical America. *A. fulva*,
 Sw.; Hook. Fil. Exot. t. 26.

Anemidietyon. See *Anemia*.

Anetium. See *Hemionitis*.

Angiopteris, Hoffm.

A. evecta, Hoffm. Tropics of the Old World. Hook.
 Fil. Exot. t. 75.

var. *brongniartiana*, (*De Vriese*) Baker. Tahiti.

var. *durvilleana*, (*De Vriese*) Baker. Polynesia,
 Manilla.

var. *hypoleuca*, (*De Vriese*) Baker. Java.

var. *miqueliana*, (*De Vriese*) Baker. Java.

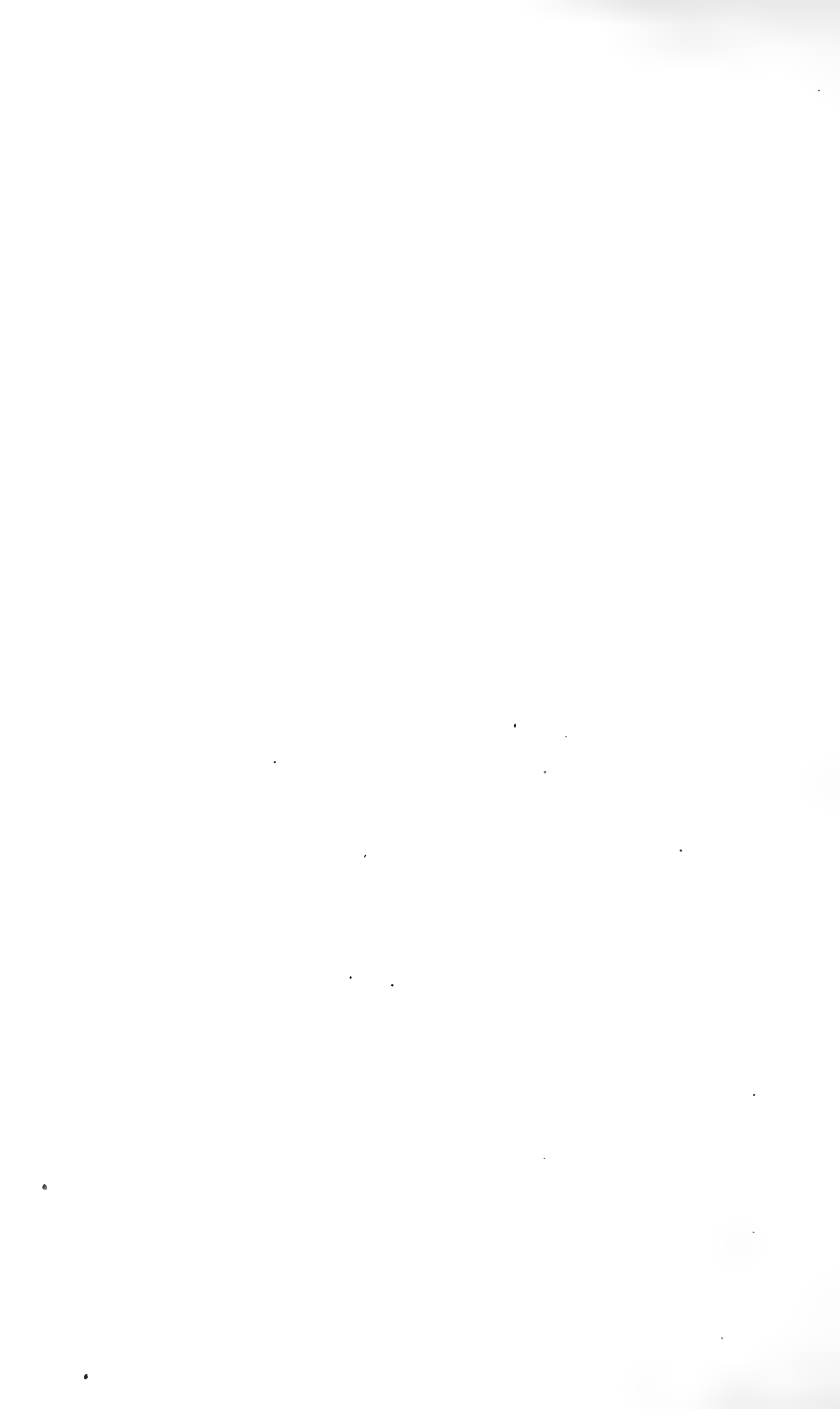
var. *pruinosa*, (*Kze*) Baker. Java.

var. *teysmanniana*, (*De Vriese*) Baker. Java. Gard.
 Chron. 1905, xxxvii. May 27, Suppl.

Anisogonium. See *Asplenium*.

Antigramme. See *Scolopendrium*.

Arthropteris. See *Polypodium tenellum*, *Nephrodium*
albopunctatum, and *Nephrolepis*.



Aspidium, Sw.

A. acrostichoides, Sw. North America.

A. *aculeatum, Sw. Ubiquitous.

var. *angulare*, Gren. & Godr. Hook. Brit. Ferns, t. 12.

var. *lobatum*, Hook. Hook. Brit. Ferns, t. 10.

var. *moritzianum*, (Kl.) Baker. Colombia.

var. *setosum*, (Wall.) Baker. Himalaya.

var. *tsus-simense*, Baker. Japan.

A. amabile, Bl. India, Formosa, Japan.

A. angulare, Willd. See *aculeatum*, var.

A. angulatum, J. Sm. See *Polypodium angulatum*.

A. anomalum, Hook. & Arn. Ceylon. *Polypodium anomalum*, Hook. & Arn. in Hook. Journ. Bot. viii. (1856) t. 11.

A. argutum, Kaulf. See *Nephrodium rigidum*, var. *americanum*.

A. aristatum, Sw. Tropical Asia, Polynesia, N. S. Wales, Natal. *Polystichum aristatum*, Presl: Hook. f. Fl. N. Zealand, t. 78.

var. *coniifolium*, (Wall.) Baker.

var. *variegatum*, Hort.

A. atratum, Wall. See *Nephrodium hirtipes*.

A. auriculatum, Sw. India, Formosa, Malaya.

A. Boottii, Tuckerm. See *Nephrodium spinulosum*, var.

A. capense, Willd. Tropical America and S. temperate zone.

A. caryotideum, Wall. See *falcatum*, var.

A. coadunatum, Hook. & Grev. See *Nephrodium cicutarium*.

* For garden varieties, see p. 157.

Aspidium, Sw.—cont.

- A. concavum*, Hort. *See* *laserpitiifolium*.
- A. confluens*, Mett. *See* *Nephrodium*.
- A. coniifolium*, Wall. *See* *aristatum*, var.
- A. coriaceum*, Sw. *See* *capense*.
- A. erythrosorum*, Eaton. *See* *Nephrodium*.
- A. Fadyenii*, Mett. *See* *Fadyenia prolifera*.
- A. falcatum**, Sw. Japan to South Africa. Hook. Fil. Exot. t. 92.
- var. *caryotideum*, Baker. Northern India, South Africa. *A. caryotideum*, Wall.: Hook & Grev. Ic. Fil. t. 69.
- var. *caryotideum attenuatum*, Hort.
- var. *Fortunei*, (J. Sm.) Baker. Japan.
- var. *pendulum*, Hort.
- A. festinum*, Hance. *See* *laserpitiifolium*.
- A. fragrans*, Sw. *See* *Nephrodium*.
- A. frondosum**, Lowe. Madeira.
- A. irregulare*, Brackenr. *See* *Nephrodium latifolium*.
- A. laserpitiifolium**, Mett. China, Japan, Tonquin.
- A. lepidocaulon**, Hook. Japan. *Polystichum lepidocaulon*, T. Moore in Gard. Chron. 1875, iii. 203, fig. 36.
- A. lobatum*, Sw. *See* *aculeatum*, var.
- A. Lonchitis**, Sw. N. temp. zone. Hook. Brit. Ferns, t. 9.
- A. macrophyllum*, Sw. *See* *Nephrodium*.
- A. mohrioides**, Bory. Temperate S. America.
- A. munitum**, Kaulf. W. North America.
- var. *imbricans*, Hort.



Aspidium, Sw.—cont.

- A. nevadense*, Boiss. See *Nephrodium rigidum*.
- A. nevadense*, Eaton. See *Nephrodium nevadense*.
- A. Plumieri*, Presl. See *trifoliatum*, var.
- A. polymorphum*, Wall. See *Nephrodium*.
- A. proliferum*, R. Br. See *aculeatum*.
- A. pungens*, Kaulf. South Africa.
- A. quinquangulare*, Kze. See *Nephrodium decompositum*.
- A. repandum*, Willd. Tropical Asia.
- A. Standishii*, Hort. See *laserpitiifolium*.
- A. subtriphyllum*, Hook. See *Nephrodium*.
- A. triangulum*, Sw. West Indies. Hook. Fil. Exot. t. 33.
var. *ilicifolium*, Fée.
var. *xiphioides*, Moore.
- A. trifoliatum*, Sw. Tropical America.
var. *Plumieri*, (Presl) Baker.
- A. tripterum*, Kze. Japan.
- A. tsus-simense*, Hook. See *aculeatum*, var.
- A. uliginosum*, Nyman. See *Nephrodium cristatum*, var.
- A. variolosum*, Wall. See *Nephrodium*.
- A. varium*, Sw. China, Japan.
- A. vestitum*, Sw. See *aculeatum*.

Asplenium, L.

- A. abscissum*, Willd. Tropical America.
- A. achilleæfolium*, Liebm. Mexico.

Asplenium, L.—cont.

A. acutum, Bory. *See* *Adiantum-nigrum*, var. *Onopteris*.

A. *Adiantum-nigrum*, L. North and South temp. zones. Hook. Brit. Ferns, t. 33.

var. *Onopteris*, *Christens*.

A. *alatum*, H. B. & K. West Indies, Tropical America. Hook. & Grev. Ic. Fil. t. 136.

A. *angustifolium*, Mich. North America.

A. *anisophyllum*, Kze. Tropical and S. Africa, Tropical America.

A. apicidens, Moore. *See* *Vieillardii*, var.

A. *arborescens*, Mett. Mascarene Islands.

A. *arboreum*, Willd. West Indies, Tropical America.

A. *Arnottii*, Baker. Sandwich Islands.

A. *attenuatum*, R. Br. Australia. Hook. & Grev. Ic. Fil. t. 220.

var. *integrum*, *Hort*.

A. aureum, Link. *See* *Ceterach*, var.

A. *auritum*, Sw. India, Mascarene Is., Trop. America.

var. *macilentum*, *Baker*.

var. *sulcatum*, *Baker*.

A. australasicum, Hook. *See* *Nidus*, var.

A. axillare, Webb & Berth. *See* *umbrosum*.

A. *bantamense*, Baker. Tropical Asia.

A. Baptistii, Moore. *See* *Vieillardii*, var.

A. *Belangeri*, Kze. Malayan Islands. Hook. Fil. Exot. t. 41.

A. bifidum, Presl. *See* *lineatum*, var.

Asplenium, *L.*—*cont.*

- A. brachypterum*, *Kze.* Tropical and South Africa, Mascarene Islands. *Hook. Fil. Exot.* t. 44.
- A. Brownii*, *J. Sm.* *See umbrosum.*
- A. bulbiferum*, *Forst.* Tropical Asia, Mascarene Is., Australia. *Hook. Ic. Pl.* t. 423.
 var. *fabianum*, *Baker.*
 var. *Hillii*, *Hort.*
 var. *laxum*, *Hook. f.* New Zealand.
 var. *minus*, *Baker.* New Zealand.
 var. *pumilum*, *Hort.*
 var. *tripinnatum*, *Hook. f.* New Zealand.
- A. caryotæfolium*, *Hort.* *See cuneatum.*
- A. celtidifolium*, *Kze.* Tropical America.
- A. Ceterach*, *L.* Europe and temp. Asia. *Hook. Brit. Ferns*, t. 36.
 var. *aureum*, *Baker.* Madeira and Canary Is.
- A. cicutarium*, *Sw.* Tropical America.
- A. Colensoi*, *Hook. f.* New Zealand.
- A. compressum*, *Sw.* St. Helena. *Hook. Fil. Exot.* t. 76.
- A. contiguum*, *Kaulf.* Polynesia and Malaya.
 var. *fissum*, *Hort.*
- A. cordifolium*, *Mett.* Malaya. *Diplazium cordifolium*, *Bl.*; *Hook. Ic. Pl.* t. 936.
- A. crenulatum*, *Baker.* West Indies, Tropical America.
- A. cultrifolium*, *L.* West Indies, Tropical America.
- A. cuneatum*, *Lam.* Polynesia, Africa, Trop. America.
Hook. & Grev. Ic. Fil. t. 189.
- A. Currori*, *Hook.* Tropical Africa.

Asplenium, L.—*cont.*

- A. decussatum*, Sw. Tropics of Old World.
- A. dimidiatum*, Sw. Tropical Africa, Trop. America.
- A. dimorphum*, Kze. Norfolk Island.
- A. ebeneum*, Ait. Temperate regions.
- A. elongatum*, Sw. *See tenerum*, var.
- A. erectum*, Bory. *See lunulatum*.
- A. esculentum*, Presl. Tropical Asia. *Anisogonium esculentum*, Presl ; Bedd. Handb. Ferns Ind. 193.
var. *glabrum*, Hort.
var. *serampureense*, Baker.
- A. fabianum*, Hombr. & Jacquem. *See bulbiferum*, var.
- A. falcatum*, Lam. Tropics and sub-tropics, Old World.
var. *erosum*, Hort.
- A. feejeense*, Brack. Fiji Islands.
- A. fernandezianum*, Kze. *See lunulatum*, var.
- A. *Filix-fœmina*, Bernh. Ubiquitous. Hook. Brit. Ferns, t. 35.
- A. flabellifolium*, Cav. Australia. *A. flabelliforme*, Hook. Exot. Fl. t. 208.
var. *Richardsoni*, Hort.
- A. flaccidum*, Forst. Australia, Polynesia, Natal.
- A. fœniculaceum*, H. B. & K. *See fragrans*, var.
- A. fontanum*, Bernh. North temp. zone. Hook. Brit. Ferns, t. 34.
- A. fragrans*, Sw. West Indies, Tropical America.
var. *fœniculaceum*, Baker. *A. fœniculaceum*, H. B. & K. ; Hook. & Grev. Ic. Fil. t. 92.

* For garden varieties, *see* p. 165.

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Asplenium, L.—cont.

- A. furcatum, Thunb.** Tropical and sub-tropical regions.
var. *tripinnatum, Baker.* Natal.
- A. germanicum, Weiss.** Europe. Hook. Brit. Ferns, t. 27.
- A. gœringianum, Mett.** *See macrocarpum, var.*
- A. grandifolium, Sw.** West Indies, Tropical America.
- A. griffithianum, Hook.** Ic. Pl. t. 928. Himalaya.
- A. Halleri, Willd.** *See fontanum.*
- A. Hemionitis, Wall.** South Europe and North Africa.
Bot. Mag. t. 4911.
- A. heterocarpum, Wall.** India, Malaya. Bedd. Ferns S. Ind. t. 131.
- A. heterophlebium, Mett.** Himalaya. *Anisogonium heterophlebium, Bedd. Handb. Ferns Ind. t. 192.*
- A. hians, Kze.** West Indies, Tropical America.
- A. incisum, Thunb.** China, Japan.
- A. lanceolatum, Huds.** Europe.
- A. lanceum, Thunb.** China, Japan, India. *A. subsinuatum, Hook. & Grev. Ic. Fil. t. 27.*
- A. lasiopteris, Mett.** *See Peterseni.*
- A. laxum, R. Br.** *See bulbiferum, var.*
- A. lineatum, Sw.** Mauritius.
var. *bifidum, Baker.*
var. *inæquale, Baker.*
- A. longissimum, Bl.** Malaya, Mauritius.
- A. lucidum, Forst.** *See obtusatum, var.*
- A. lunulatum, Sw.** Tropics and subtropics.
var. *erectum, Baker.* Mascarene Islands, Tropical America.



Asplenium, L.—cont.**A. lunulatum, Sw.—cont.**

- var. *fernandezianum*, (Kze) Baker. Juan Fernandez.
- var. *pteropus*, Baker. Tropical America. *A. pteropus*, Kaulf.; Hook. Sp. Fil. iii. t. 177.
- var. *tenellum*, (Roxb.) Baker. St. Helena.
- var. *tripinnatifidum*, Hort.

A. macilentum, Kze. See *auritum*, var.

A. macrocarpum, Bl. Tropical Asia.

var. *göeringianum*, (Mett.) Baker. Japan.

A. marginatum, L. West Indies, Tropical America. Hook. Fil. Exot. t. 73.

A. marinum, L. Europe, Canaries and Azores. Hook. Brit. Ferns, t. 31.

var. *imbricatum*, Hort.

var. *ramosum*, Hort.

A. maximum, G. Don. Tropical Asia, Australia

A. Mayii, Hort. Garden origin. Gard. Chron. 1898, xxiii. 332, fig. 140.

A. Michauxii, Spreng. See *Filix-fœmina*.

A. monanthemum, L. Temperate regions.

A. Nidus, L. Tropics, Old World. Bot. Mag. t. 3101.

var. *australasicum*, Baker. Australia. *A. australasicum*, Hook. Fil. Exot. t. 88.

var. *madagascariense*, Hort.

var. *multilobatum*, Hort.

A. niponicum, Mett. Japan.

var. *cristatum*, Hort.

A. nitidum, Sw. India and Malaya.

A. nobile, Hort. See *viviparum*.

A. nodulosum, Hort. See *lineatum*.

Asplenium, L.—cont.

- A. obliquum*, Forst. *See* obtusatum, var.
- A. obtusatum**, *Forsk.* South temperate regions. Hook. Fil. Exot. t. 46.
 var. *lucidum*, *Baker.*
 var. *Lyallii*, *Hook.* New Zealand.
 var. *obliquum*, *Hook. f.* New Zealand.
- A. obtusilobum**, *Hook.* Polynesia.
- A. ornatum**, *Col.* New Zealand.
- A. paleaceum**, *R. Br.* Tropical Australia. Hook. Sp. Fil. iii. t. 199.
- A. Peterseni**, *Kze.* India, Java.
- A. planicaule**, *Wall.* India, China.
- A. plantagineum**, *L.* West Indies, Tropical America.
- A. platyneuron*, *Oakes.* *See* *ebeneum*.
- A. polyodon*, *Forst.* *See* *falcatum*.
- A. polypodioides**, *Mett.* Tropical Asia. *Diplazium polypodioides*, *Bl.*; *Bedd. Handb. Ferns Ind.* 185.
- A. præmorsum*, *Sw.* *See* *furcatum*.
- A. procerum**, *Wall.* Northern India.
- A. proliferum*, *Lam.* *See* *decussatum*.
- A. prolongatum*, *Hook.* *See* *rutæfolium*.
- A. pteridoides**, *Baker.* Lord Howe's Island.
- A. pteropus*, *Kaulf.* *See* *lunulatum*, var.
- A. pubescens*, *Mett.* *See* *esculentum*.
- A. pumilum**, *Sw.* West Indies, Tropical America.
- A. pusillum**, *Bl.* Java.
- A. radicans**, *Schkuhr.* West Indies, Tropical America.



Asplenium, L.—cont.

- A. reclinatum*, Houlst. *See* *lunulatum*, var. *tenellum*.
- A. refractum*, Moore. *See* *fontanum*.
- A. resectum**, Sm. Japan, Tropical Asia and Africa.
Hook. & Grev. Ic. Fil. t. 114.
- A. rhizophorum**, L. West Indies, Tropical America.
Hook. Sp. Fil. iii. t. 187.
- A. rigidum*, Sw. *See* *auritum*, var. *sulcatum*.
- A. rutæfolium**, Kze. Tropical and sub-tropical Asia and Africa.
var. *prolongatum*, (Hook.) Baker.
- A. Ruta-muraria**, L. North temp. zone. Hook. Brit. Ferns, t. 28.
- A. scandens**, J. Sm. New Guinea, Philippines, Fiji.
- A. semihastatum**, Kze. Cuba.
- A. septentrionale**, Hoffm. North temp. zone. Hook. Brit. Ferns, t. 26.
- A. Serra**, Langsd. & Fisch. West Indies, Tropical America and Africa.
var. *natalensis*, Baker. South Africa.
- A. Shepherdii**, Spreng. West Indies, Tropical America.
- A. sinuatum**, Beauv. Tropical Africa. Hook. Fil. Exot. t. 61.
- A. speciosum**, Mett. Malay Peninsula and Archipelago.
- A. striatum*, L. *See* *Shepherdii*.
- A. subsinuatum*, Hook. & Grev. *See* *lanceum*.
- A. sylvaticum**, Presl. Tropics, Old World.
- A. tenellum*, Roxb. *See* *lunulatum*, var.
- A. tenerum**, Forst. Ceylon, Malaya, Polynesia.
var. *elongatum*, (Sw.) Baker. Malaya.

Asplenium, L.—cont.

- A. thelypteroides, Mich.** Temp. East Asia, North America.
- A. tomentosum, Hook.** N. India, Malay Peninsula and Islands.
- A. Trichomanes, L.** Temp. regions. Hook. Brit. Ferns, t. 29.
- A. umbrosum, J. Sm.** Tropical Asia, Africa and Australia, Canary Islands.
var. *procerum*, Baker. See *procerum*.
- A. unilaterale, Lam.** See *resectum*.
- A. veitchianum, Moore.** See *Belangeri*.
- A. Vieillardii, Mett.** New Caledonia.
var. *apicidens*, (Moore) Baker. South Sea Islands.
var. *Baptistii*, (Moore) Baker. South Sea Islands.
var. *Drueryi*, Hort.
- A. virescens, Mett.** Japan.
- A. viride, Huds.** North temp. zone. Hook. Brit. Ferns, t. 30.
- A. viviparum, Presl.** Mascarene Islands. Hook. Fil. Exot. t. 64.
var. *nobile*, Hort.
- A. vulcanicum, Bl.** Malay Islands.
- A. zeylanicum, Hook.** Ceylon. Sec. Cent. Ferns, t. 16.

Athyrium. See *Asplenium*.

Balantium. See *Dicksonia*.

Blechnum, L.

- B. Atherstonei, Pappe.** See *Lomaria punctulata*, var. *blechnoides*.



Blechnum, L.—cont.

B. Banksii, Mett. *See* Lomaria.

B. boreale, Sw. *See* Lomaria Spicant.

B. brasiliense, Desv. Tropical America.

var. *corcovadense*, (*Raddi*) *Baker*. Brazil.

var. *crispum*, *Hort*.

B. cartilagineum, Sw. Temperate Australia.

B. corcovadense, *Raddi*. *See* *brasiliense*, var.

B. Gilliesii, Mett. *See* Lomaria procera.

B. glandulosum, Link. *See* *occidentale*, var. *distans*.

B. gracile, Kaulf. *See* *longifolium*, var.

B. hastatum, Kaulf. Temperate South America. *B. trilobum*, Presl; Hook. & Grev. Ic. Fil. t. 192.

B. Lanceola, Sw. Tropical America. Bot. Mag. t. 3240.

B. latifolium, Hort. *See* *longifolium*.

B. lomarioides, Gaud. *See* *orientale*.

B. longifolium, H. B. & K. Tropical America.

var. *fraxineum*, *Baker*.

var. *gracile*, *Baker*.

B. occidentale, L. West Indies, Trop. America, Chili.

var. *distans*, *Baker*. S. Brazil, Uruguay.

var. *cristatum*, *Hort*.

B. orientale, L. S. China to Polynesia and Australia. Hook. Fil. Exot. t. 77.

B. polypodioides, *Raddi*. *See* *unilaterale*.

B. punctulatum, Sw. *See* Lomaria.

B. rugosum, Moore. Origin unknown.

B. triangulare, Link. *See* *unilaterale*.

Blechnum, L.—cont.

B. trilobum, Presl. *See* *hastatum*.

B. unilaterale, Willd. West Indies, Tropical America.

Bolbitis. *See* *Acrostichum*.

Botrychium, Sw.

B. ternatum, Sw. North and south temp. zones.

var. *dissectum*, Baker. North America, New Zealand.

B. virginianum, Sw. North temp. zone, Trop. America.
Hook. Gard. Ferns, t. 29.

Brainea, Hook.

B. insignis, Hook. Fil. Exot. t. 38. Hong Kong and Khasia.

Cænopteris. *See* *Asplenium*.

Callipteris. *See* *Asplenium*.

Campyloneuron. *See* *Polypodium*.

Campteria. *See* *Pteris*.

Camptosorus. *See* *Scolopendrium*.

Ceratopteris, Brongn.

C. thalictroides, Brongn. Tropics. *Parkeria pteridoides*,
Hook & Grev. Ic. Fil. t. 97; Hook. Exot. Fl. iii.
t. 231.

Ceropteris. *See* *Gymnogramme*.

Ceterach. *See* *Asplenium*.

Cheilanthes, Sw.

C. anceps, Blandf. *See farinosa*, var.

C. argentea, Hook. Fil. Exot. t. 95. North Asia, Malay Peninsula.

C. dicksonioides, Endl. *See Hypolepis tenuifolia*.

C. elegans, Desv. *See myriophylla*, var.

C. ellisiana, Hort. *See hirta*, var.

C. farinosa, Kaulf. Tropics. Bot. Mag. t. 4765.
var. *anceps*, Blandf. Himalaya.
var. *punctata*, Hort.

C. fragrans, Sw. Europe, Orient, N. Africa, Canary Is.

C. hirta, Sw. Tropical and South Africa.
var. *ellisiana*, Hort.

C. mexicana, Davenp. Mexico.

C. micromera, Link. *See microphylla*, var.

C. microphylla, Sw. West Indies, Tropical America.
var. *micromera*, Baker. Central America.

C. myriophylla, Desv. Tropical America.
var. *elegans*, Baker.

C. profusa, Kze. *See Pellaea involuta*.

C. radiata, R. Br. West Indies, Tropical America.

C. tomentosa, Link. United States and Mexico.

C. undulata, Hope & Wright. China.

C. vestita, Sw. United States.

Chrysodium. *See Acrostichum*.

Cibotium. *See Dicksonia*.

1. The first part of the paper is devoted to a general discussion of the problem.

2. In the second part, we consider the case of a single particle.

3. The third part is devoted to the case of a system of particles.

4. In the fourth part, we consider the case of a continuous medium.

5. The fifth part is devoted to the case of a system of continuous media.

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22. In the twenty-second part, we consider the case of a continuous medium.

23. The twenty-third part is devoted to the case of a system of continuous media.

24. In the twenty-fourth part, we consider the case of a continuous medium.

25. The twenty-fifth part is devoted to the case of a system of continuous media.

Cincinalis. *See* Notholæna.

Cionidium. *See* Deparia.

Coniogramme. *See* Gymnogramme.

Conpteris. *See* Lonchitis.

C. brazziana, Linden. *See* Lonchitis pubescens, var.

Craspedaria. *See* Polypodium.

Cryptogramme, *R. Br.*

C. crispa, *R. Br.* North temp. zone. Hook. Brit. Ferns, t. 39.

var. *acrostichoides*, *Baker*. North America. *C. acrostichoides*, *R. Br.*; Hook & Grev. Ic. Fil. t. 29.

Cyathea, *J. E. Smith*.

C. arborea, *J. E. Sm.* West Indies, Tropical America.

C. beyrichiana, Presl. *See* Hemitelia setosa.

C. dealbata, *Sw.* New Zealand.

var. *tricolor*, (*Col.*) *Baker*.

C. Dregei, *Kze.* Tropical and South Africa.

var. *Burkei*, *Hook.* Tropical and South Africa.

C. excelsa, *Sw.* Bourbon and Mauritius.

C. gracilis, *Griseb.* Jamaica.

C. Hookeri, *Thw.* Ceylon.

C. imrayana, *Hook.* *See* Tussacii.

C. insignis, *D. C. Eaton.* West Indies.

C. medullaris, *Sw.* New Zealand. Hook. Gard. Ferns, t. 35.



Cyathea, J. E. Smith—cont.

C. mexicana, Schlecht. Mexico.

C. princeps, J. Sm. *See insignis.*

C. Serra, Willd. West Indies, Tropical America.

C. Smithii, Hook. f. *See Hemitelia Smithii.*

C. spinulosa, Wall. India, Japan.

C. tricolor, Col. *See dealbata.*

C. Tussacii, Desv. West Indies.

Cyclodium. *See Aspidium.*

Cyclopeltis. *See Aspidium.*

Cyrtogonium. *See Acrostichum.*

Cyrtomium. *See Aspidium.*

Cyrtophlebium. *See Polypodium.*

Cystopteris, Bernh.

C. alpina, Desv. Europe, Asia Minor. Hook. Brit. Ferns, t. 24.

C. bulbifera, Bernh. North America.

C. fragilis, Bernh. Cosmopolitan. Hook. Brit. Ferns, t. 23.

var. **angustata, Link.** Europe.

var. **dickieana, Moore.** Scotland.

C. montana, Link. Europe, North America. Hook. Brit. Ferns, t. 25.

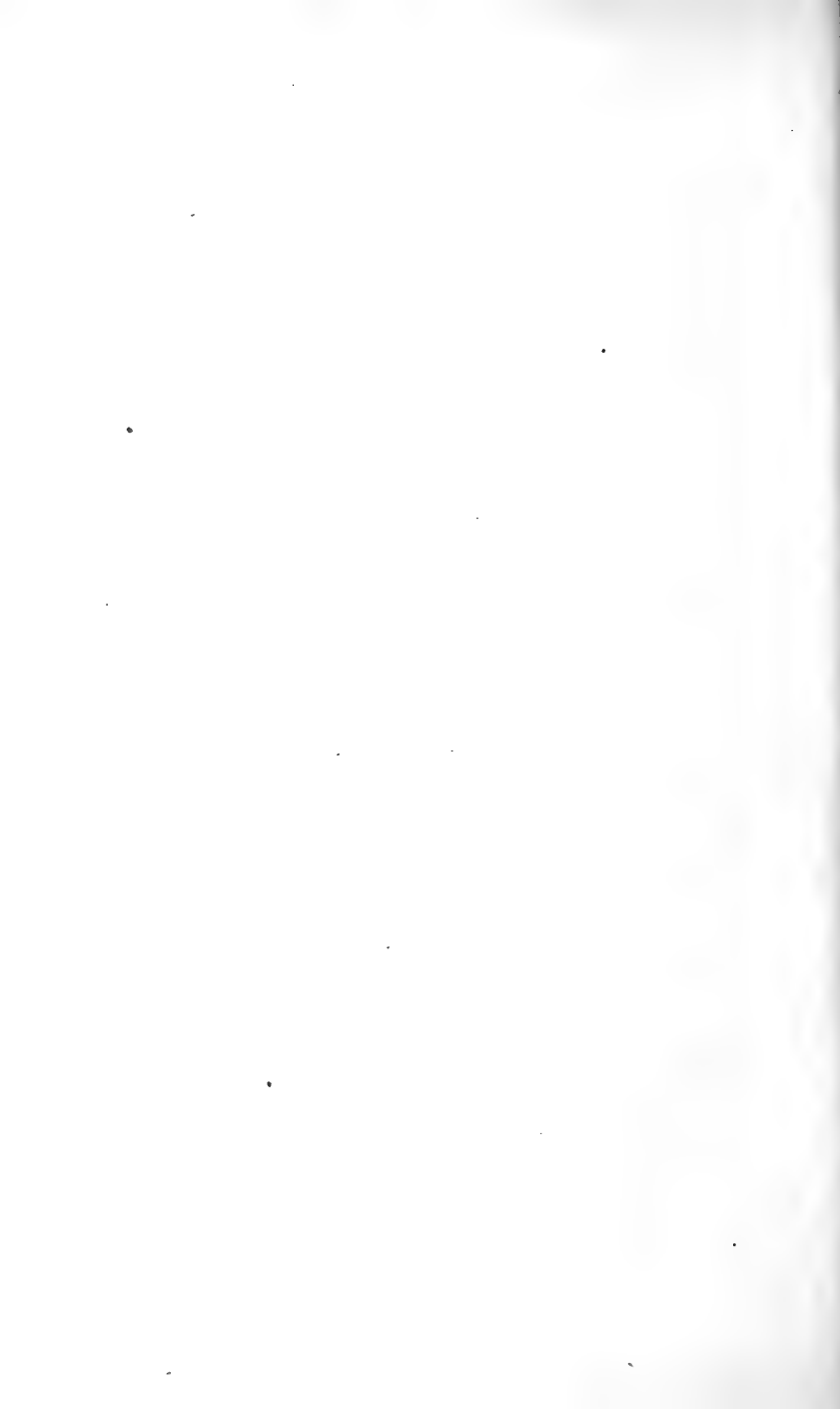
C. tenuis, Schott. *See fragilis.*

Darea. *See Asplenium.*

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Davallia, J. E. Smith.

- D. aculeata, Sw.** West Indies.
var. *inermis, Hort.*
- D. affinis, Hook.** Tropical and sub-tropical Asia, Polynesia.
- D. alpina, Bl.** Malaya, Polynesia.
- D. angustata, Wall.** Malay Peninsula and Islands.
Hook. & Grev. Ic. Fil. t. 231.
- D. assamica, Baker.** Bhotan, Manipur.
- D. bullata, Wall.** Japan, Tropical Asia.
var. *cristata, Hort.*
var. *cyphochlamys, Baker & Clarke.* Northern India.
var. *decora, (Moore) Baker.* Java.
var. *Mariesii, (Moore) Baker.* Japan.
- D. canariensis, J. E. Sm.** Western Europe and the Canaries.
- D. chærophylla, Wall.** India, Malaya.
- D. ciliata, Hook.** Philippines.
var. *angustata, Hort.*
- D. decora, Moore.** See *bullata*, var.
- D. decurrens, Hook.** Philippines.
- D. dissecta, J. Sm.** Java.
var. *elegans, Hort.*
- D. divaricata, Bl.** India, Malaya.
- D. elata, Sw.** See *elegans*, var.
- D. elegans, Sw.** Tropical Asia, Africa and Australia.
var. *elata, Baker.*
var. *Kunzei, Hort.* Malaya.
var. *polydactyla, Hort.*



Davallia, *J. E. Smith*—*cont.*

D. epiphylla, *Bl.* Malay Peninsula, Java.

D. fejeensis, *Hook.* Fiji Islands.

var. *effusa*, *Hort.*

var. *gracillima*, *Hort.*

var. *major*, *Hort.*

var. *plumosa*, *Hort.*

var. *robusta*, *Hort.*

D. fijiensis, *Hook. & Baker.* See *fejeensis*.

D. fœniculacea, *Hook.* Fiji.

D. glabella, *Hort.* Garden origin.

D. griffithiana, *Hook.* China, India, Malaya.

D. hemiptera, *Bory.* See *repens*.

D. heterophylla, *J. E. Sm.* Malay Peninsula, Polynesia.
Hook. Fil. Exot. t. 27.

D. hirta, *Kaulf.* India, Malaya, Polynesia.

var. *cristata*, *Hort.*

D. illustris, *Hort.* Garden origin.

D. immersa, *Wall.* India, Malaya. *Hook. Fil. Exot.*
t. 79.

D. khasyana, *Hook.* See *strigosa*.

D. lawsoniana, *Hort.* Garden origin.

D. Lindleyi, *Hook.* See *solida*, var. *caudata*.

D. Lorranei, *Hance.* Malay Peninsula.

D. lonchitidea, *Wall.* See *platyphylla*.

D. lucida, *Hort.* See *solida*.

D. madagascariensis, *Baker.* Madagascar.

D. majuscula, *Lowe.* Ceylon.

1. The first part of the paper is devoted to a general discussion of the problem of the existence of a solution of the system of equations (1) for arbitrary values of the parameters α and β . It is shown that the system (1) has a solution for arbitrary values of the parameters α and β if and only if the condition $\alpha + \beta = 1$ is satisfied.

2. In the second part of the paper the problem of the uniqueness of the solution of the system (1) is considered. It is shown that the system (1) has a unique solution for arbitrary values of the parameters α and β if and only if the condition $\alpha + \beta = 1$ is satisfied.

3. In the third part of the paper the problem of the stability of the solution of the system (1) is considered. It is shown that the system (1) has a stable solution for arbitrary values of the parameters α and β if and only if the condition $\alpha + \beta = 1$ is satisfied.

4. In the fourth part of the paper the problem of the asymptotic behavior of the solution of the system (1) is considered. It is shown that the system (1) has an asymptotically stable solution for arbitrary values of the parameters α and β if and only if the condition $\alpha + \beta = 1$ is satisfied.

5. In the fifth part of the paper the problem of the periodicity of the solution of the system (1) is considered. It is shown that the system (1) has a periodic solution for arbitrary values of the parameters α and β if and only if the condition $\alpha + \beta = 1$ is satisfied.

6. In the sixth part of the paper the problem of the boundedness of the solution of the system (1) is considered. It is shown that the system (1) has a bounded solution for arbitrary values of the parameters α and β if and only if the condition $\alpha + \beta = 1$ is satisfied.

7. In the seventh part of the paper the problem of the convergence of the solution of the system (1) is considered. It is shown that the system (1) has a convergent solution for arbitrary values of the parameters α and β if and only if the condition $\alpha + \beta = 1$ is satisfied.

8. In the eighth part of the paper the problem of the divergence of the solution of the system (1) is considered. It is shown that the system (1) has a divergent solution for arbitrary values of the parameters α and β if and only if the condition $\alpha + \beta = 1$ is satisfied.

9. In the ninth part of the paper the problem of the oscillation of the solution of the system (1) is considered. It is shown that the system (1) has an oscillatory solution for arbitrary values of the parameters α and β if and only if the condition $\alpha + \beta = 1$ is satisfied.

10. In the tenth part of the paper the problem of the non-oscillation of the solution of the system (1) is considered. It is shown that the system (1) has a non-oscillatory solution for arbitrary values of the parameters α and β if and only if the condition $\alpha + \beta = 1$ is satisfied.

Davallia, J. E. Smith—cont.

- D. marginalis**, *Baker*. China, Japan, India.
- D. Mariesii*, *Moore*. See *bullata*, var.
- D. mauritiana**, *Hook*. Mauritius.
- D. mooreana*, *Masters*. See *pallida*.
- D. nitidula**, *Kze*. Tropical and South Africa.
- D. Novæ-Zelandiæ**, *Col*. New Zealand.
- D. ornata*, *Wall*. See *solida*, var. *latifolia*.
- D. pallida**, *Mett*. Malaya and Polynesia.
var. *intermedia*, *Hort*.
- D. parvula**, *Wall*. Malay Peninsula and Archipelago.
- D. pedata**, *J. E. Sm*. Tropical and subtropical Asia, Australia, Mascarene Islands. *Hook. Gard. Ferns*, t. 7.
- D. pentaphylla**, *Bl*. Java, Polynesia. *Hook. Fil. Exot.* t. 37.
- D. platyphylla**, *D. Don*. India. *D. lonchitidea*, *Wall.* ; *Hook. Fil. Exot.* t. 19.
- D. polyantha*, *Hook*. See *divaricata*.
- D. polypodioides*, *D. Don*. See *Speluncæ*.
- D. pulchella**, *Hook*. Philippines, Fiji, Samoa.
- D. pulchra**, *D. Don*. China, India.
- D. pycnocarpa*, *Brackenr*. See *pentaphylla*.
- D. repens**, *Desv*. India, Malaya, Polynesia.
- D. retusa*, *Cav*. See *Lindsaya retusa*.
- D. rhomboidea*, *Wall*. See *strigosa*, var.
- D. scabra*, *D. Don*. See *marginalis*.

Davallia, J. E. Smith—cont.

D. solida, Sw. Malaya, Polynesia, Queensland. Hook.
Fil. Exot. t. 57.

var. *caudata*, Hook. Singapore.

var. *latifolia*, Hook. Penang.

var. *Lindleyi*, Hook. See var. *caudata*.

var. *lucida*, Hort.

D. Speluncæ, Baker. Tropics, ubiquitous.

D. stenocarpa, Hort. Par. See *madagascariensis*.

D. strigosa, Sw. Tropical and subtropical Asia,
Polynesia.

var. *rhomboidea*, Hook. Northern India.

D. tenuifolia, Sw. Tropics of the Old World.

var. *stricta*, Hort.

var. *Veitchii*, Hort.

D. trichosticha, Hook. See *Speluncæ*.

D. triphylla, Hook. Singapore.

D. Tyermanni, Baker. China. Hook. Ic. Pl. t. 1620.

D. villosa, Wall. See *marginalis*.

Dennstædtia. See *Dicksonia*.

Deparia, Hook. & Grev.

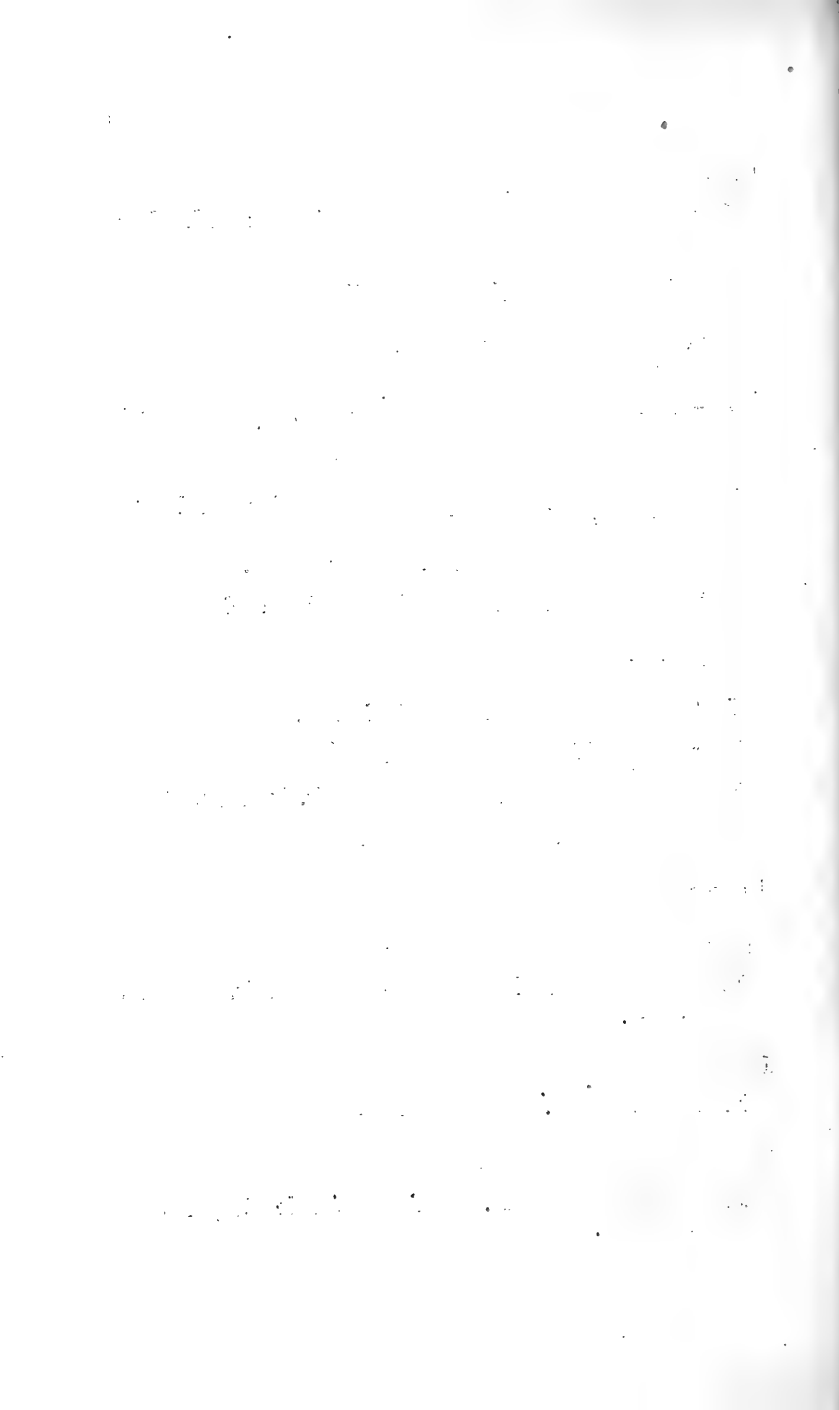
D. Moorei, Hook. New Caledonia. Hook. Fil. Exot.
t. 28.

Diacalpe, Bl.

D. aspidioides, Bl. Tropical Asia.

Dicksonia, L'Hérit.

D. adiantoides, H. B. & K. West Indies, Tropical
America.



Dicksonia, *L'Hérit.*—*cont.*

- D. antarctica*, *Labill.* Australia.
- D. apiifolia*, *Hook.* Andes of Ecuador and Peru.
- D. arborescens*, *L'Hérit.* St. Helena.
- D. Barometz*, *Link.* Sub-tropical Asia.
- D. Chamissoi*, *Hook. & Baker.* Sandwich Islands.
- D. cicutaria*, *Sw.* West Indies, Tropical America.
var. *tenera*, *Hort.*
- D. Culcita*, *L'Hérit.* Madeira, Azores and Spain.
- D. davallioides*, *R. Br.* Australia.
- D. Deplanchei*, *Vieill.* New Caledonia.
- D. fibrosa*, *Col.* New Zealand.
- D. glauca*, *J. E. Sm.* Sandwich Islands.
- D. gracilis*, *Col.* New Zealand.
- D. Herberti*, *Hill.* Queensland ?.
- D. karsteniana*, *Klotzsch.* See *sellowiana*, var.
- D. Lathamii*, *Moore.* Garden origin. *Gard. Chron.* 1885,
xxiv. 584, 689, fig. 154.
- D. Menziesii*, *Hook. & Baker.* Sandwich Islands.
- D. obtusifolia*, *Willd.* See *adiantoides*.
- D. princeps*, *Hort.* See *Cyathea insignis*.
- D. punctiloba*, *Hook.* See *punctilobula*.
- D. punctilobula*, *A. Gray.* North America.
- D. regalis*, *Baker.* Mexico.
- D. rubiginosa*, *Kaulf.* West Indies, Tropical America.
- D. Schiedei*, *Baker.* Central America.



Dicksonia, *L'Hérit.*—*cont.*

D. sellowiana, *Hook.* South Brazil.

var. **karsteniana**, *Baker.* Guatemala and Andes of Colombia.

D. spectabilis, *Hort.* See *Wendlandi*.

D. squarrosa, *Sw.* New Zealand.

D. tenera, *Hort.* See *apiifolia*.

D. Wendlandi, *Baker.* Guatemala.

var. **Verschaffeltii**, *Hort.*

D. Youngiæ, *C. Moore.* New South Wales.

Dictyogramme. See *Gymnogramme*.

Dictyopteris. See *Polypodium*.

Didymochlæna, *Desv.*

D. lunulata, *Desv.* Tropics, ubiquitous. *Hook. Gard. Ferns*, t. 17.

D. sinuosa, *Desv.* See *lunulata*.

D. truncatula, *J. Sm.* See *lunulata*.

Didymoglossum. See *Hymenophyllum*.

Diplazium. See *Asplenium*.

Dipteris. See *Polypodium*.

Disphenia. See *Cyathea*.

Doodia, *R. Br.*

D. amœna, *Hort.* Garden origin.

D. aspera, *R. Br.* Temperate Australia.

var. **multifida**, *Hort.*

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Doodia, R. Br.—cont.

D. blechnoides, *Cunn.* Australia.

D. caudata, *R. Br.* Australia and New Zealand.

D. kunthiana, *Gaud.* Sandwich Islands.

D. lunulata, *R. Br.* *See media.*

D. media, *R. Br.* Polynesia, Australia, New Zealand.

Doryopteris. *See Pteris.*

Drymoglossum, Presl.

D. carnosum, *Hook.* Eastern Himalaya.

var. *minor*, *Hook.* China and Japan.

D. piloselloides, *Presl.* India, Malaya. *Hook. Gard.*
Ferns, t. 46.

D. spathulatum, *Presl.* *See piloselloides.*

D. subcordatum, *Fée.* *See carnosum*, var. *minor*

Drynaria. See Polypodium.

D. diversifolia, *J. Sm.* *See P. rigidulum.*

D. morbillosa, *J. Sm.* *See P. Heracleum.*

Dryopteris. See Nephrodium.

D. acrostichoides, *O. Kze.* *See Aspidium.*

Egenolfia. See Acrostichum.**Elaphoglossum. See Acrostichum.****Eupodium. See Marattia.****Fadyenia, Hook.**

F. prolifera, *Hook.* West Indies.

Feea. *See* *Trichomanes*.

Gleichenia, *J. E. Smith*.

G. circinata, *Sw.* Australia, New Zealand, Malaya.

var. *backhousiana*, *Hort.*

var. *semivestita*, (*Labill.*) *Baker.* New Caledonia.

G. dicarpa, *R. Br.* Australia, New Zealand. *Hook.*
Fil. Exot. t. 40.

var. *alpina*, *Hook.* Tasmania, New Zealand, Malaya.

var. *glauc*a, *Moore.*

var. *longipinnata*, *Hort.*

G. flabellata, *R. Br.* Australia, New Zealand, New
Caledonia. *Hook. Fil. Exot.* t. 71.

G. longipinnata, *Hort.* *See* *dicarpa*, var.

G. rupestris, *R. Br.* Australia.

var. *glaucescens*, *Hort.*

Goniophlebium. *See* *Polypodium*.

Goniopteris. *See* *Polypodium*.

Gymnogramme, *Desv.*

G. ampla, *Benth.* Australia.

G. calomelanos, *Kaulf.* West Indies, Tropical America.
Hook. Gard. Ferns, t. 50.

var. *Alstoni*, *Hort.*

var. *argyrophylla*, *Hort.*

var. *chrysophylla*, *Baker.*

var. *grandiceps*, *Hort.*

var. *grandiceps superba*, *Hort.*

var. *intermedia*, (*Fée*).

var. *Martensii*, (*Link*) *Baker.*

Gymnogramme, Desv.—cont.

G. caudiformis, Hook. Tropical Asia, Polynesia. *Grammitis caudiformis*, Hook. Bot. Mag. t. 5328.

G. chrysophylla, Kaulf. *See* calomelanos.

G. decurrens, Hook. *See* elliptica.

G. dobroydense, Hort. Garden origin.
var. **cristata**, Hort.

G. elliptica, Baker. Tropical Asia, Queensland. *Grammitis decurrens*, Hook. & Grev. Ic. Fil. t. 6.

G. gracilis, Heward. Jamaica.

G. hamiltoniana, Hook. Eastern Himalaya.

G. Heyderi, Lauche. Dominica.
var. **argentea**, Hort.

G. japonica, Hook. Japan, Formosa.

G. laucheana, K. Koch. *See* calomelanos.

G. leptophylla, Desv. Cosmopolitan. Hook. Brit. Ferns, t. 1.

G. L'Herminieri, Link. *See* calomelanos.

G. Mathewsii, Hook. Peru.

G. Muelleri, Hook. Australia.

G. multiceps, Hort. *See* calomelanos.

G. ochracea, Presl. *See* tartarea, var.

G. Parsonsii, Moore. *See* calomelanos.

G. Pearcei, Moore. Peru.
var. **robusta**, Hort.



Gymnogramme, Desv.—cont.

G. peruviana, Desv. *See calomelanos.*

G. pulchella, Linden. Venezuela. Hook. Fil. Exot. t. 74.

var. *wettenhalliana*, Hort.

var. *Mayi*, Hort.

G. rufa, Desv. West Indies, Tropical America.

G. schizophylla, Baker. Hook. Ic. Pl. t. 1682.

var. *elegantissima*, Hort.

var. *gloriosa*, Rodigas. Ill. Hort. 1884, t. 522.

G. sulphurea, Desv. West Indies.

var. *grandiceps*, Hort.

G. tartarea, Desv. Tropical America.

var. *ochracea*, Baker. South Brazil.

G. tomentosa, Desv. South America. Hook. Fil. Exot. t. 13.

G. triangularis, Kaulf. From Vancouver Island to Ecuador. Hook. Fil. Exot. t. 10.

G. Veitchii, Hort. Garden hybrid.

Gymnopteris. *See Acrostichum.*

Haplopteris. *See Vittaria.*

Helminthostachys, Kaulf.

H. dulcis, Kaulf. *See zeylanica.*

H. zeylanica, Hook. India, Malaya, Queensland. Hook. Gard. Ferns, t. 28.

Hemidictyum. *See Asplenium.*

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Hemionitis, L.

H. cordata, *Roxb.* India, Malaya. Hook. & Grev. Ic. Fil. t. 64.

H. palmata, *L.* West Indies, Tropical America.

Hemitelia, R. Br.

H. capensis, *R. Br.* South Africa, Brazil.

H. setosa, *Mett.* Brazil.

H. Smithii, *Hook.* New Zealand.

H. speciosa, *Hook.* Colombia. Hook. Fil. Exot. t. 66.
var. *Klotzschii*, *Hort.*

Humata. *See Davallia.*

Hymenodium. *See Acrostichum.*

Hymenolepis. *See Acrostichum.*

Hymenophyllum, J. E. Sm.

H. asplenioides, *Sw.* West Indies, Tropical America.

H. axillare, *Sw.* West Indies, Venezuela.

H. capillaceum, *Roxb.* St. Helena.

H. Catharinæ, *Hook.* West Indies.

H. caudiculatum, *Mart.* Tropical America, Chili.

H. chiloense, *Hook.* South Chili and Island of Chiloe.

H. ciliatum, *Sw.* Tropical Africa and America. Hook. & Grev. Ic. Fil. t. 35.

H. crispatum, *Wall.* *See javanicum*, var.

H. cruentum, *Cav.* Chili. Hook. Sp. Fil. i. t. 31, fig. A.

Hymenophyllum, J. E. Sm.—cont.

- ✓ **H. demissum, Sw.** New Zealand, Polynesia, Malaya.
var. **nitens, Hort.**
- H. dilatatum, Sw.** New Zealand, Polynesia, Java.
Hook. & Grev. Ic. Fil. t. 60.
var. **fosterianum, Hort.**
- H. flabellatum, Labill.** Australia and New Zealand.
- H. flexuosum, Cunn.** See **javanicum**, var.
- H. fosterianum, Hort.** See **dilatatum**, var.
- H. fucoides, Sw.** West Indies, Tropical America. Hook.
Ic. Pl. t. 963.
- H. gracile, Bory.** South Africa, Mascarene Islands.
Hook. & Grev. Ic. Fil. t. 198.
- H. hirsutum, Sw.** West Indies, Tropical and Temperate
South America, Mascarene Islands. Hook. & Grev.
Ic. Fil. t. 84.
- H. hirtellum, Sw.** West Indies, Mexico.
- H. javanicum, Spreng.** Tropical Asia, Australia and
New Zealand.
var. **crispatum, (Wall.) Baker.** India.
var. **flexuosum, (A. Cunn.) Baker.** Australia. *H.*
flexuosum, A. Cunn.; Hook. Ic. Pl. t. 962.
var. **montanum, Hort.**
var. **tamariscifolium, Hort.**
- H. lineare, Sw.** West Indies, Tropical America.
var. **elegantissima, Hort.**
- H. multifidum, Sw.** New Zealand, Polynesia.
- H. pectinatum, Cav.** Chili and Chiloe.
var. **superbum, Hort.**
- H. polyanthos, Sw.** Tropics, ubiquitous.
var. **villosum, (Col.) Baker.** New Zealand.

Hymenophyllum, J. E. Sm.—cont.

H. pulcherrimum, Col. New Zealand.

H. rarum, R. Br. S. Africa, Mascarene Islands, New Zealand.

H. scabrum, A. Rich. New Zealand.

H. sericeum, Sw. West Indies, Tropical America.

H. subtilissimum, Kze. New Zealand.

H. tamariscifolium, Hort. See *javanicum*, var.

H. tunbridgense, Sw. Ubiquitous. Hook. Brit. Ferns, t. 43.
var. *Wilsoni*, Hook. Britain, Norway. *H. Wilsoni*,
Hook. Brit. Ferns, t. 44.

H. villosum, Col. See *polyanthos*, var.

Hypoderris, R. Br.

H. Brownii, J. Sm. Trinidad. Hook. Gard. Ferns, t. 24.

Hypolepis, Bernh.

H. bergiana, Hook. Tropical and South Africa.

H. millefolia, Hook. New Zealand.

H. purdieana, Hook. Colombia.

H. radiata, Hook. See *Cheilanthes*.

H. repens, Presl. West Indies, Tropical America.

H. tenuifolia, Bernh. Malaya, Polynesia, Australasia.

Isoloma. See *Lindsaya*.

Kaulfussia, Bl.

K. æsculifolia, Bl. Assam, Malaya. Hook. & Grev. Ic.
Fil. t. 229.



Lastrea. *See* *Nephrodium*.

L. aristata, Hort. *See* *Aspidium aristatum*.

L. atrovirens, J. Sm. *See* *Nephrodium decompositum*.

L. opaca, Hook. *See* *Aspidium varium*.

Lepicystis. *See* *Polypodium*.

Leptochilus. *See* *Acrostichum*.

Leptogramme. *See* *Gymnogramme*.

Leptopteris. *See* *Todea*.

Leucostegia. *See* *Davallia*.

Lindsaya, *Dry.*

L. guianensis, *Dry.* West Indies, Tropical America.

L. linearis, *Sw.* Australia, New Zealand.

L. Lowii, Hort. *See* *Acrostichum sorbifolium*.

L. retusa, *Mett.* Malaya.

L. trapeziformis, *Dry.* Tropical America, Malaya.

var. *falcata*, *Baker.* West Indies.

Litobrochia. *See* *Pteris*.

Llavea, *Lag.*

L. cordifolia, *Lag.* Mexico. Bot. Mag. t. 5159.

Lomaria, *Willd.*

L. alpina, *Spreng.* South temperate zone. Hook. Fil.
Exot. t. 32.

Lomaria, Willd.—*cont.*

L. attenuata, Willd. Tropical and South temperate regions.

var. *gigantea*, (Kaulf.) Baker. South Africa. *L. gigantea*, Kaulf. ; Ill. Hort. 1876, t. 237.

var. *heterophylla*, Hort.

L. Banksii, Hook. f. New Zealand.

L. boryana, Willd. Tropical and South temperate regions.

L. capensis, Willd. *See* *procera*.

L. ciliata, Moore. New Caledonia. Ill. Hort. 1876, t. 252.

L. discolor, Willd. Australia and New Zealand.

var. *bipinnatifida*, Hort.

var. *nuda*, (R. Br.) Baker. Australia.

L. fluviatilis, Spreng. Australia and New Zealand. Hook. f. Fl. Tasm. t. 16.

L. gibba, Labill. Sert. Austr. Caled. tt. 4-5. New Caledonia, &c. *L. neocaledonica*, Linden & Fourn. Ill. Hort. 1876, t. 251.

var. *blechnoides*, Hort.

var. *tincta*, Hort.

L. gigantea, Kaulf. *See* *attenuata*.

L. Gilliesii, Hook. & Grev. *See* *procera*.

L. heterophylla, Hort. *See* *attenuata*.

L. lanceolata, Spreng. Australia, New Zealand, Polynesia. Hook. Ic. Pl. t. 429.

L. L'Herminieri, Bory. West Indies, Tropical America, Chili. Hook. Gard. Ferns, t. 40.

L. magellanica, Desv. *See* *boryana*.

Lomaria, Willd—cont.

L. membranacea, *Col.* New Zealand. Hook. Sp. Fil. iii. t. 145.

L. minor, R. Br. *See procera.*

L. neocaledonica, Linden & Fourn. *See gibba.*

L. nipponica, *Kunze.* Japan.

L. Patersonii, *Spreng.* Australia. Hook. Fil. Exot. t. 49.

L. procera, *Spreng.* Southern Hemisphere. Hook. Gard. Ferns, t. 53.

L. punctulata, *Kze.* South Africa. *Scolopendrium Krebsii*, Kze ; Bot. Mag. t. 4768.

var. *blechnoidea*, *Baker.* South Africa.

L. Spicant, *Desv.* North temperate zone. *Blechnum boreale*, Sw. ; Hook. Brit. Ferns, t. 40.

var. *imbricata*, *Hort.*

L. tuberculata, J. Sm. *See procera.*

L. zamiaefolia, *Hort.* *See boryana.*

L. zamoides, *Gardn.* *See boryana.*

Lomariopsis. See Acrostichum.

L. buxifolium, *Fée.* *See A. sorbifolium*, var. *buxifolium.*

Lonchitis, L.

L. pubescens, *Willd.* Tropics.

var. *mollissima*, *Hort.* Tropical Africa. *Compteris brazziana*, *Linden.*

Lopholepis. See Polypodium.**Lophosoria. See Alsophila.**

Lorinseria. *See* Woodwardia.

Lotzea. *See* Asplenium.

Loxoscaphe. *See* Davallia.

Lygodietyon. *See* Lygodium.

L. Fosteri, J. Sm. *See* Lygodium reticulatum.

Lygodium, Sw.

L. circinatum, Sw. *See* dichotomum.

L. dichotomum, Sw. Tropical Asia. Hook. & Grev.
Ic. Fil. t. 55.

L. japonicum, Sw. Tropics of the Old World.

L. palmatum, Sw. United States. Hook. Fil. Exot.
t. 24.

L. reticulatum, Schkuhr. Polynesia, East Tropical
Australia.

L. scandens, Sw. Tropics of the Old World.
var. *microphyllum*, (R. Br.) Baker. Australia.

L. volubile, Sw. West Indies, Tropical America.

Marattia, J. E. Sm.

M. alata, J. E. Sm. West Indies, Central America.

M. attenuata, Labill. New Caledonia. Ill. Hort. 1876,
t. 246.

M. Ascensionis, J. Sm. *See* fraxinea, var. *purpurascens*.

M. Burkei, Baker. Colombia. Gard. Chron. 1897, xxii.
425, fig. 129.

M. Cooperi, Hort. *See* attenuata.

M. cristata, J. Sm. *See* fraxinea, var. *purpurascens*.



Marattia, J. E. Sm.—cont.

M. elegans, Endl. *See* fraxinea.

M. fraxinea, J. E. Sm. Tropics and sub-tropics of the Old World. Bedd. Handb. Ferns Ind. 461.

var. *purpurascens*, (*De Vriese*) Baker. Ascension Island.

M. Kaulfussii, J. Sm. West Indies, Tropical America.

M. laxa, Kze. Mexico.

M. Moorei, Hort. *See* attenuata.

M. sorbifolia, Bory. *See* fraxinea.

Meniscium, Schreb.

M. delticgerum, Wall. *See* *Acrostichum virens*.

M. reticulatum, Schkuhr. West Indies, Tropical America
var. *macrophyllum*, Baker. Brazil.

M. serratum, Cav. West Indies, Tropical America.

M. simplex, Hook. Tropical and sub-tropical Asia. Hook.
Fil. Exot. t. 73.

Mertensia. *See* *Gleichenia*.

Mesochlæna. *See* *Didymochlæna*.

Microlepidia. *See* *Davallia*.

Microsorium. *See* *Polypodium*.

Mohria, Sw.

M. Caffrorum, Desv. South Africa.

var. *achilleæfolia*, Hort.

M. thurifraga, Sw *See* *Caffrorum*.

Myriopteris. *See* Cheilanthes.

Neottopteris. *See* Asplenium.

Nephrodium, L. C. Rich.

N. acrostichoides, Michx. *See* Aspidium.

N. affine, Lowe. *See* Filix-Mas.

N. albopunctatum, Desv. Tropical and South Africa, Mascarene Islands, Fiji. Hook. Fil. Exot. t. 89.

N. areolatum, Hort. *See* Woodwardia areolata.

N. atratum, Wall. *See* hirtipes.

N. Blumei, Hook. *See* intermedium.

N. canum, Baker. Himalaya.

N. chrysolobum, Fée. Brazil and Colombia.

N. cicutarium, Baker. Tropics, ubiquitous. *Aspidium coadunatum*, Hook. & Grev. Ic. Fil. t. 202.

N. cochleatum, D. Don. *See* Filix-mas, var.

N. confluens, F. Muell. Queensland.

N. conterminum, Desv. West Indies, Tropical America.

N. coruscum, Hort. *See* Aspidium varium.

N. crinitum, Desv. Mascarene Islands. *Polypodium crinitum*, Hook. & Grev. Ic. Fil. t. 66.

N. cristatum, Michx. Europe, North America. Hook. Brit. Ferns, t. 17.

var. *clintonianum*, Hort.

var. *uliginosum*, Baker.

N. cuspidatum, Baker. Northern India, Yunnan. *Lastrea cuspidata*, Bedd. Handb. Ferns Ind. 232.

Nephrodium, *L. C. Rich.*—*cont.*

N. decompositum, *R. Br.* Australia, New Zealand, Polynesia.

var. **glabellum**, *Baker.* Australia, New Zealand.

var. **Shepherdii**, (*Kze*) *Baker.* Australia, New Zealand

N. decurrens, *Baker.* Tropical Asia.

var. **Thwaitesii**, *J. Sm.* Ceylon.

N. decursivopinnatum, *Baker.* China and Japan.

N. dilatatum, *Desv.* See *spinulosum*, var.

N. dissectum, *Desv.* Tropics of the Old World.

var. **membranifolium**, (*Presl*) *Baker.* Malaya.

N. effusum, *Baker.* West Indies, Tropical America.

var. **divergens**, *Baker.*

N. erythrorum, *Hook.* China, Japan. *Hook. Sp. Fil.* iv. t. 253.

N.* Filix-mas, *L. C. Rich.* Temperate regions, ubiquitous. *Hook. Brit. Ferns*, t. 15.

var. **cochleatum**, *Hook.* India.

N. fragrans, *Richardson.* North Asia, North America.

N. glabellum, *A. Cunn.* See *decompositum*.

N. goldieanum, *Hook.* North America. *Hook. & Grev. Ic. Fil.* t. 102.

N. Grisebachii, *Baker.* Cuba.

N. hirtipes, *Hook.* Tropical Asia. *Lastrea hirtipes*, *Bedd. Handb. Ferns Ind.* 233.

N. hispidum, *Hook.* Australia, New Zealand.

N. intermedium, *Baker.* Tropical Asia.

N. Jenmani, *Baker.* Jamaica.

* For garden varieties, see p. 175.

Nephrodium, *L. C. Rich.*—*cont.***N. lacerum**, *Baker.* Japan.**N. latifolium**, *Baker.* Polynesia.**N. lepidum**, *Moore.* Polynesia.**N. leuzeanum**, *Hook.* Tropical Asia, Polynesia. *Pleocnemia leuzeana*, Presl ; Gard. Chron. 1874, ii. 355, fig. 74.**N. macrophyllum**, *Baker.* West Indies Tropical America.var. *calvatum*, *Hort.***N. marginale**, *Michx.* North America.**N. Maximowiczii**, *Baker.* China.*N. membranifolium*, Presl. See *dissectum*.**N. molle**, *Desv.* Ubiquitous in warm countries.var. *polydactylon*, *Hort.* Tropics.**N. montanum**, *Baker.* Europe, North America.
N. Oreopteris, Desv. ; Hook. Brit. Ferns, t. 14.**N. nevadense**, *Baker.* California.**N. noveboracense**, *Desv.* North America.*N. Oreopteris*, Desv. See *montanum*.**N. patens**, *Desv.* Tropics and slightly beyond.**N. patulum**, *Baker.* West Indies, Tropical America.**N. polymorphum**, *Baker.* India, Malaya.*N. prolificum*, Maxim. See *erythrosorum*.**N. recedens**, *Hook.* Philippines, India, Ceylon.**N. Richardsi**, *Baker.* New Caledonia.var. *multifidum*, *Hort.*



Nephrodium, *L. C. Rich.*—*cont.*

- N. rigidum*, *Desv.* North temperate zone. Hook.
Brit. Ferns, t. 16.
var. *americanum*, *Hook.* North America.
- N. sanctum*, *Baker.* West Indies, Guatemala.
- N. scabrosum*, *Baker.* Nilgherries. *Lastrea scabrosa*,
Bedd. Hand. Ferns Ind. 263.
- N. setigerum*, *Baker.* Japan, Tropical Asia, Polynesia.
var. *cristatum*, *Hort.*
- N. Sieboldii*, *Hook.* Fil. Exot. t. 31. Japan.
- N. Sloanei*, *Baker.* West Indies, Tropical America.
- N. *spinulosum*, *Desv.* North temperate zone.
var. *Boottii*, *Baker.* United States.
var. *dilatatum*, *Hook.* Europe. Hook. Brit. Ferns, t. 19.
- N. subbiauratum*, *Hook.* Madagascar.
- N. subtriphyllum*, *Baker.* Tropical Asia, Polynesia,
Mascarene Is.
- N. tenericaule*, *Hook.* See *setigerum*.
- N. Thelypteris*, *Desv.* North and South temperate zones.
Hook. Brit. Ferns, t. 13.
- N. trichophorum*, *Baker.* Guadeloupe.
- N. truncatum*, *Presl.* India, Malaya, Polynesia,
Australia.
- N. unitum*, *R. Br.* Tropical and subtropical regions.
- N. variolosum*, *Baker.* India, Malaya.
- N. villosum*, *Presl.* West Indies, Tropical America.

Nephrolepis, *Schott.*

- N. acuta*, *Presl.* Tropics, ubiquitous.

* For garden varieties, see p. 179.

Nephrolepis, Schott—cont.

- N. Bausei, Hort.** Garden origin.
- N. biserrata, Schott.* See *acuta*.
- N. bostoniensis, Hort.** Garden origin.
- N. cordifolia, Baker.** Tropics, ubiquitous. Bedd. Handb. Ferns Ind. 283.
 var. *compacta, Hort.*
 var. *crispato-congesta, Hort.*
 var. *edmontoniensis, Hort.*
 var. *pectinata, Baker.* Tropical America.
 var. *philippinensis, Hort.* Philippines.
- N. davallioides, Kze.** Java. Hook. Fil. Exot. t. 60.
 var. *furcans, Hort.*
 var. *multiceps, Hort.*
- N. Duffii, Moore.** Australia. Gard. Chron. 1878, ix. 623, fig. 113.
- N. ensifolia, Presl.* See *acuta*.
- N. exaltata, Schott.** Tropics, ubiquitous. Bedd. Ferns S. Ind. t. 93.
 var. *Barteri, Hort.* West Tropical Africa.
 var. *hirsutula, Baker.* Malaya, Tropical Australia.
- N. Faulkneri, Hort.** Garden origin.
- N. floccigera, Hort.** Garden origin.
- N. Fosteri, Hort.** Garden origin.
- N. Hestoni, Hort.** Garden origin.
- N. pectinata, Schott.* See *cordifolia*, var.
- N. philippinensis, Hort.* See *cordifolia*, var.
- N. Pluma, Moore.** Madagascar. Gard. Chron. 1878, ix. 589, fig. 108.

Nephrolepis, Schott—cont.

N. ramosa, Moore. Tropics of the Old World.

N. recurvata, Hort. *See exaltata.*

N. rufescens, Presl. Tropics.

var. **Mayi, Hort.**

var. **tripinnatifida, Baker.** Solomon Islands.

N. tuberosa, Presl. *See cordifolia.*

N. undulata, J. Sm. *See cordifolia.*

N. Westoni, Hort. Garden origin.

N. Wittboldi, Hort. Garden origin.

Neurocallis. *See Acrostichum.*

Niphobolus. *See Polypodium.*

Niphopsis. *See Polypodium.*

Nothochlæna. *See Notholæna.*

Notholæna, R. Br.

N. distans, R. Br. Australia, New Zealand, New Caledonia.

N. eckloniana, Kze. South Africa.

N. ferruginea, Hook. West Indies, Tropical America.

N. flavens, Moore. Central America. *Gymnogramme flavens*, Sw.; Hook. Fil. Exot. t. 47.

N. Hookeri, Lowe. *See nivea.*

N. laevis, Martens & Gal. *See sinuata.*

N. lanuginosa, Desc. S. Europe, Atlantic Islands, Australia.

N. Marantæ, R. Br. S. Europe, N. Africa, temp. Asia.

Notholæna, R. Br.—cont.

N. rufa, Presl. *See ferruginea.*

N. sinuata, Kaulf. Tropical America.

N. trichomanoides, R. Br. Jamaica, Cuba.

Odontosoria. See Davallia.

Oleandra, Cav.

O. articulata, Cav. Tropical and S. Africa, Mascarene Islands.

O. nodosa, Presl. West Indies, Tropical America.

Olfersia. See Acrostichum.

Onoclea, L.

O. germanica, Willd. North temperate zone.

O. pennsylvanica, Willd. *See germanica.*

O. sensibilis, L. Northern Asia, North America.

Onychium, Kaulf.

O. japonicum, Kze. Japan, Himalaya.

O. lucidum, Spreng. *See japonicum.*

Ophioglossum, L.

O. vulgatum, L. Ubiquitous in cold and temperate regions. Hook. Brit. Ferns, t. 46.

Osmunda, L.

O. bipinnata, Hook. Fil. Exot. t. 9. Hong Kong.

O. cinnamomea, L. North and Central America, West Indies, Northern Asia. Hook. Gard. Ferns, t. 45.

Osmunda, L.—cont.

O. claytoniana, L. North America, Himalaya.

O. interrupta, Michx. *See* claytoniana.

O. japonica, Thunb. *See* regalis.

O. javanica, Bl. From Kamschatka to Java.

O. *regalis, L. North and South temp. regions. Hook.
Brit. Ferns, t. 45.

var. *japonica*, Milde. Japan.

O. spectabilis, Willd. *See* regalis.

Pæsia. *See* Pteris.

Paragramma. *See* Polypodium.

Parkeria. *See* Ceratopteris.

Pellæa, Link.

P. adiantifolia, Hort. *See* hastata.

P. atropurpurea, Link. North and Central America.
Lowe, Ferns, iii. t. 30.

P. cordata, J. Sm. Mexico, Western South America.
Allosorus cordatus, Presl ; Bot. Mag. t. 4698.

var. *flexuosa*, Baker. Western South America.
Allosorus flexuosus, Kaulf. ; Bot. Mag. t. 4762.

P. densa, Hook. North America.

P. falcata, Fée. Tropical Asia and Australia.

P. geraniifolia, Fée. Tropics. *Pteris geraniifolia*,
Raddi ; Hook. Ic. Pl. t. 915.

P. gracilis, Hook. Northern Asia, North America.

P. hastata, Link. Tropical and South Africa. Hook.
Fil. Exot. t. 50.

* For garden varieties, *see* p. 179.

Pellæa, Link—cont.

P. intramarginalis, J. Sm. Central America.

P. involuta, Baker. East Tropical Africa.

P. mucronata, Eaton. California, New Mexico.

P. rotundifolia, Hook. New Zealand, Norfolk Island.
Hook. Fil. Exot. t. 48.

P. viridis, Forsk. See *hastata*.

P. wrightiana, Hook. See *mucronata*.

Phegopteris. See *Polypodium*.

P. trichodes, J. Sm. See *Nephrodium setigerum*.

Phlebodium. See *Polypodium*.

P. inequale, Moore. See *Polypodium guatemalense*.

Phymatodes. See *Polypodium*.

P. vulgaris, Presl. See *Polypodium Phymatodes*.

Platycterium, Desv.

P. æthiopicum, Hook. Tropical Africa. Hook. Gard.
Ferns, t. 9.

P. alcicorne, Desv. Australia. Bot. Reg. tt. 262-3.

var. *Hillii*, Bailey. Queensland. *P. Hillii*, Moore,
Gard. Chron. 1878, x. 428, figs. 74-5.

P. angolense, Welw. Tropical Africa.

P. biforme, Bl. Malaya. Bedd. Ferns Brit. Ind. tt.
109, 224.

P. grande, J. Sm. Tropical Asia, North Australia.
Hook. Fil. Exot. t. 86.

P. madagascariense, Baker. Madagascar.

Platyserium, Desv.—cont.

P. Stemmaria, P. Beauv. *See* æthiopicum.

P. Veitchii, Hort. Garden origin.

P. Wallichii, Hook. Malay Peninsula. Hook. Fil. Exot. t. 97.

P. Willinckii, Moore. Java. Gard. Chron. 1875, iii. 303, fig. 56.

Platyloma. *See* Pellæa.

Pleocnemia. *See* Nephrodium.

Pleopeltis. *See* Polypodium.

Pleuridium. *See* Polypodium.

Pœcilopteris. *See* Acrostichum.

Polybotrya. *See* Acrostichum.

Polypodium, L.

P. adnascens, Sw. Tropical Asia and Africa. *Nipholus adnascens*, Kaulf. ; Hook. Gard. Ferns, t. 19.

P. albopunctatissimum, Linden. *See* crassifolium, var.

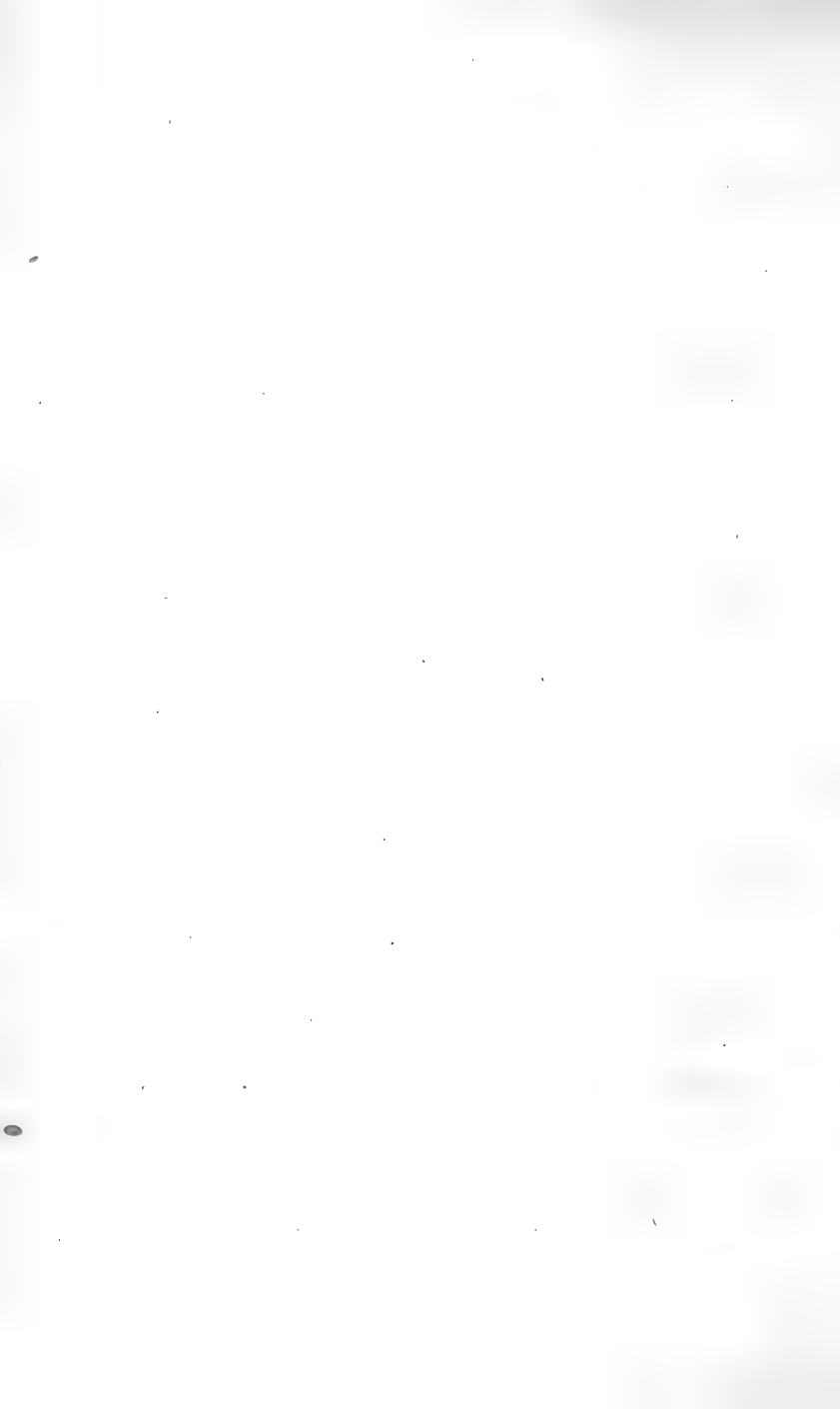
P. albosquamatum, Bl. Malaya. Hook. Gard. Ferns, t. 47.

P. alpestre, Hoppe. North temperate zone. Hook. Brit. Ferns, t. 6.

var. *flexile*, Moore. Scotland.

P. americanum, Hook. Andes of Ecuador.

P. amphostemon, Kze. *See* angustifolium.



Polypodium, *L.*—*cont.*

- P. angulatum*, *Willd.* Malay Islands.
- P. angustatum*, *Sw.* Malay Peninsula and Islands.
Australia. *Nipholus angustatus*, *Spreng.*; *Hook.*
Gard. Ferns, t. 20.
- P. angustifolium*, *Sw.* West Indies, Tropical America.
- P. appendiculatum*, *Wall.* India. *Hook. Fil. Exot.*
t. 87.
- P. areolatum*, *H. B. & K.* *See aureum*, var.
- P. attenuatum*, *H. B. & K.* West Indies, Tropical
America.
- P. aureum*, *L.* West Indies, Tropical America.
var. *areolatum*, *Baker.* Brazil.
var. *glaucum*, *Hort.*
var. *Mayi*, *Hort.*
var. *pulvinatum*, *Baker.*
var. *sporodocarpum*, (*Willd.*) *Baker.*
- P. Billardieri*, *R. Br.* Australia and New Zealand.
- P. brevifolium*, *Link.* *See Phyllitidis*, var. *linnæanum*.
- P. calcareum*, *J. E. Sm.* *See Dryopteris*, var. *robertia-*
num.
- P. cambricum*, *L.* *See vulgare*, var.
- P. cameroonianum*, *Hook.* Cameroon Mountains.
- P. Catharinæ*, *J. Sm.* *See loriceum*.
- P. chnoodes*, *Spreng.* West Indies, Venezuela.
- P. colpodes*, *Kze.* *See plesiosorum*.
- P. conjugatum*, *Lam.* Tropical Asia. *P. coronans*,
Wall.; *Hook. Fil. Exot.* 91.
- P. contiguum*, *Wall.* *See longifolium*.

Polypodium, L.—cont.

- P. coronans*, Wall. *See* conjugatum.
- P. crassifolium, L.** West Indies, Tropical America.
var. *albopunctatissimum*, (*J. Sm.*) *Baker.* Brazil.
- P. cuspidatum*, Bl. *See* persicæfolium.
- P. decurrens, Raddi.** Tropical America.
- P. dissimile*, Hook. *See* chnoodes.
- P. distans*, Raddi. *See* fraxinifolium.
- P. divergens*, Willd. *See* Nephrodium effusum, var.
- P. diversifolium, Sw.** Tropical America. Hook. Gard. Ferns, t. 5.
- P. Dryopteris, L.** North temperate zone. Hook. Brit. Ferns, t. 4.
var. *robertianum*, *Ruprecht.* *P. robertianum*, Hoffm.; Hook. Brit. Ferns, t. 5.
- P. effusum*, Sw. *See* Nephrodium.
- P. elasticum, L. C. Rich.** Tropical America.
- P. ensifolium*, Willd. *See* angustifolium.
- P. falcatum, Kellogg.** California.
- P. Fendleri, Eaton.** Venezuela, Colombia.
- P. fossum, Baker.** Garden origin.
- P. fraxinifolium, Jacq.** Tropical America. Jacq. Ic. t. 639.
- P. glaucophyllum, Kze.** West Indies, Tropical America, West Africa. *Goniophlebium glaucophyllum*, *J. Sm.*; Gard. Chron. 1874, ii. 7, fig. 1.
var. *glabrum*, *Moore.*
var. *viride*, *Hort.*
- P. grande*, Presl. *See* macropterum, var. *splendidum.*

Polypodium, L.—*cont.*

- P. guatemalense*, Hook. Central America.
- P. harpeodes*, Link. *See* *loriceum*.
- P. hastatum*, Thunb. Japan.
- P. hemionitideum*, Wall. North India, South China.
- P. Heracleum*, Kze. Java, Philippines. Hook. Gard. Ferns, t. 1.
- P. hexagonopterum*, Michx. North America. Hook. & Grev. Ic. Fil. t. 210.
- P. hirsutum*, Sw. Brazil.
- P. hydrophilum*, Kze. Dominica.
- P. incanum*, Sw. Tropical and South Africa, America from Ohio southwards.
- P. incurvatum*, Bl. Malay Peninsula.
- P. irioides*, Lam. Tropics and subtropics of the Old World. Hook. Fil. Exot. t. 4.
var. *ramocristatum*, Hort.
- P. juglandifolium*, D. Don. Himalaya.
var. *tenuicauda*, Baker.
- P. karwinskianum*, A. Br. *See* *plebeium*.
- P. Knightiæ*, Hort. Australia. Gard. Chron. 1903, xxxiii. 245, fig. 99.
- P. lachnopus*, Wall. Northern India.
- P. lævigatum*, Cav. Tropical America.
- P. lanceolatum*, L. Tropics.
- P. lapathifolium*, Poir. *See* *lævigatum*.
- P. leiorhizon*, Wall. India, China. Hook. Fil. Exot. t. 25.



Polypodium, L.—cont.

- P. lepidopteris, Kze.** Tropical America.
var. **sepultum, Baker.** Tropical America.
- P. lineare, Thunb.** Tropical and subtropical Asia,
Tropical and subtropical Africa.
- P. Lingua, Sw.** Manchuria to Malaya.
var. **corymbiferum, Hort.**
var. **Heteractis, Baker.** Himalaya.
- P. longifolium, Mett.** Malaya. *P. contiguum*, Wall.;
Hook. Fil. Exot. t. 20.
- P. longipes*, Link. See *Phymatodes*, var.
- P. longissimum, Bl.** Tropical Asia.
- P. loriceum, L.** West Indies, Tropical America.
var. **hirsutum, Hort.**
var. **latipes, Baker.** Brazil.
var. **pinnatifidum, Baker.**
- P. lycopodioides, L.** Tropics, ubiquitous.
var. **maximum, Hort.**
var. **owariense, (Desv.) Baker.** Tropical Africa.
var. **salicifolium, Hook.** Tropical America.
var. **squamulosum, Baker.** South Brazil.
- P. macropterum, Kaulf.** Brazil.
var. **splendidum, Baker.** South Brazil.
- P. macrourum, Baker.** Australia.
- P. menisciifolium*, Langsd. & Fisch. See *neriifolium*.
- P. meyenianum, Schott.** Philippines.
- P. multilineatum, Wall.** Northern India.
- P. musæfolium, Bl.** Malaya.
- P. neriifolium, Schkuhr.** West Indies, Tropical America.
var. **albopunctatum, (Raddi).** Tropical America.



Polypodium, *L.*—*cont.*

- P. nigrescens*, *Bl.* India, Malaya, Polynesia. Hook.
Fil. Exot. t. 22.
var. *grandiceps*, *Hort.*
- P. owariense*, *Desv.* See *lycopodioides*.
- P. palmatum*, *Bl.* Malaya.
- P. pectinatum*, *L.* West Indies, Tropical America.
Hook. Gard. Ferns, t. 10.
var. *Paradisæ*, *Baker.* Brazil.
var. *plumosum*, *Hort.*
- P. pettideum*, *Link.* See *Phymatodes*.
- P. pendulum*, *Sw.* West Indies, Tropical America.
- P. pennigerum*, *Forst.* New Zealand.
- P. percussum*, *Cav.* Tropical America. Hook. Fil.
Exot. t. 59.
- P. persicæfolium*, *Desv.* Malaya.
var. *grandidens*, *Kze.* Java.
- P. *Phegopteris*, *L.* North temperate zone. Hook. Brit.
Ferns, t. 3.
- P. Phyllitidis*, *L.* West Indies, Tropical America.
var. *linnæanum*, *Hook.*
var. *obscurum*, (*Mett.*) *Baker.*
- P. Phymatodes*, *L.* Tropical Asia and Africa.
var. *cristatum*, *Hort.*
var. *longipes*, (*Link*) *Baker.*
var. *terminale*, (*Link*) *Baker.*
- P. pictum*, *Baker.* Polynesia.
- P. piloselloides*, *L.* West Indies, Tropical America.
Hook. Gard. Ferns, t. 18.

* For garden varieties, see p. 181.



Polypodium, *L.*—*cont.*

P. platyphyllum, *Hook.* West Indies, Tropical America.

P. plebeium, *Schlecht.* Central and South America.
Hook. Gard. Ferns, t. 48.

var. *madrense*, (*J. Sm.*). Central America.

P. plesiosorum, *Kze.* Mexico to Venezuela.

P. Plumula, *H. B. & K.* *See elasticum.*

P. preslianum, *Link.* *See neriifolium.*

P. propinquum, *Wall.* China, India, Java.

var. *Laurentii*, *Christ.* Tropical Africa. *De Wildem.*
Etudes Fl. Bas-Congo, 6, t. 2.

P. pulvinatum, *Link.* *See aureum*, var.

P. pustulatum, *Forst.* Australia and New Zealand.

P. quercifolium, *L.* Tropical Asia, Queensland.

P. repens, *L.* West Indies, Tropical America.

var. *undulatum*, *Hort.*

P. reptans, *Sw.* West Indies, Tropical America.

P. rigidulum, *Sw.* Malaya, Fiji, Queensland.

P. robertianum, *Hoffm.* *See Dryopteris*, var.

P. rostratum, *Hook.* Northern India.

P. rupestre, *Bl.* Malaya.

P. Schneideri, *Hort.* Garden hybrid. *Journ. Hort.*
ser. 3, xxix. 85, fig. 13.

P. Scouleri, *Hook. & Grev.* *Ic. Fil.* t. 56. N. W.
America.

P. sepultum, *Kaulf.* *See lepidopteris*, var.

P. serrulatum, *Mett.* Tropical Africa and America.
Xiphopteris serrulata, *Kaulf.*; *Hook. Gard. Ferns*,
t. 44.

Polypodium, L.—cont.

- P. simplex*, Sw. *See* lineare.
- P. sparsiflorum**, Hook. West Tropical Africa.
- P. sphærocephalum*, Wall. *See* angustatum.
- P. sporodocarpum*, Willd. *See* aureum, var.
- P. squamulosum*, Kaulf. *See* lycopodioides.
- P. stigmaticum**, Presl. Colombia.
- P. stigmosum**, Sw. India, Malaya.
- P. subauriculatum**, Bl. India, Malaya, Polynesia, Queensland.
- P. superficiale**, Bl. China, India.
- P. tenuosum*, Hort. *See* angustifolium.
- P. taxifolium**, L. West Indies, Tropical America.
- P. tenuicauda*, Hook. *See* juglandifolium, var.
- P. terminale*, Link. *See* Phymatodes, var.
- P. tetragonum**, Sw. West Indies, Tropical America.
- P. tricuspe**, Sw. Japan.
- P. vacciniifolium**, Langsd. & Fisch. West Indies,
*Tropical America.
var. *album*, Hort.
- P. vacillans*, Link. *See* loriceum.
- P. venosum*, Desv. *See* stigmaticum.
- P. verrucosum**, Wall. Malaya. Hook. Gard. Ferns, t. 41.
- P. *vulgare**, L. North temperate zone. Hook. Brit. Ferns, t. 2.
- P. Willdenovii**, Bory. Tropical Africa, Mascarene Islands. Hook. Gard. Ferns, t. 35.

* For garden varieties, *see* p. 181.

Polypodium, L.—cont.

P. Xiphias, Baker. Southern Polynesia.

Polystichum. *See* **Aspidium.**

Prosaptia. *See* **Davallia.**

Pseudathyrium. *See* **Polypodium.**

Pteridella. *See* **Pellæa.**

P. viridis, Mett. *See* **Pellæa hastata.**

Pteris, L.

P. aquilina, L. Cosmopolitan. Hook. Brit. Ferns, t. 38.

P. arguta, Ait. South Europe, Azores &c.

P. albolineata, Hort. *See* *cretica*, var.

P. argyræa, Moore. *See* *quadriaurita*, var.

P. Bausei, Hort. *See* *semipinnata*, var.

P. biaurita, L. Tropics. Hook. & Grev. Ic. Fil. t. 142.
var. *argentea*, Hort.

var. *nemoralis variegata*, Hort.

P. Childsii, Hort. Garden origin.

P. crenata, Sw. *See* *ensiformis*.

P. cretica, L. Tropical and subtropical regions.

var. *albolineata*, Hook. Bot. Mag. t. 5194.

var. *Alexandræ*, Hort.

var. *crispata*, Hort.

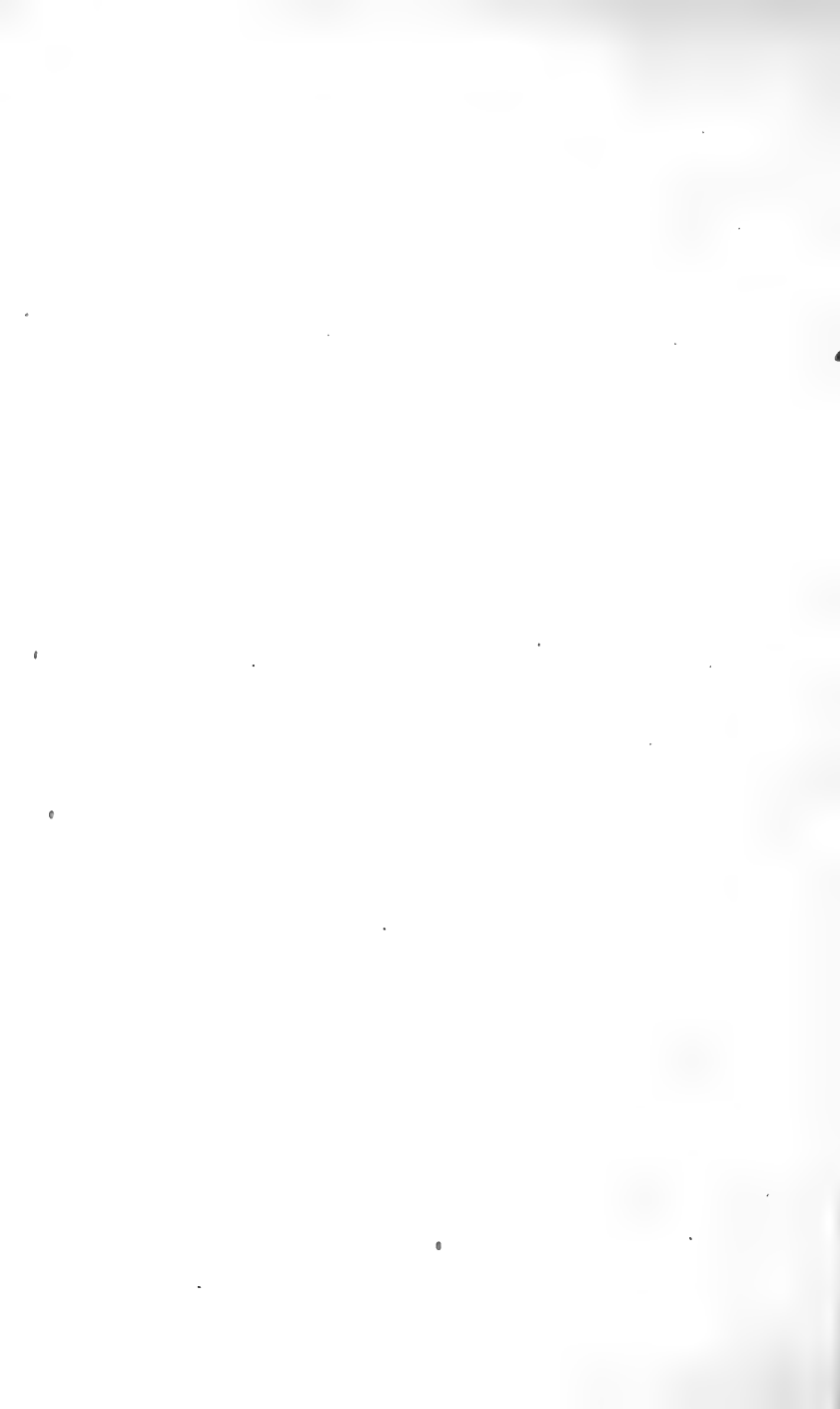
var. *Maissonieri*, Hort.

var. *major*, Hort.

var. *Mayi*, Hort.

var. *nobilis*, Hort.

var. *Wimsetti*, Hort.



Pteris, L.—*cont.*

- P. denticulata*, Sw. West Indies, Tropical America.
Hook. & Grev. Ic. Fil. t. 28.
- P. Drinkwateri*, Hort. *See* *pellucida*.
- P. droogmansiana*, De Wild. Belgian Congo.
- P. Duvalii*, (Bellair). Garden hybrid. *Dryopteris*
Duvalii, Bellair. Rev. Hort. 1897, 563, fig. 168.
- P. elata*, Ag. Tropical America.
var. *karsteniana*, Hort.
- P. ensiformis*, Burm. Tropical Asia and Australia,
Polynesia.
var. *cristata*, Hort.
var. *Reginæ*, Hort.
var. *Victoriæ*, Hort.
- P. felosma*, J. Sm. *See* *quadriaurita*.
- P. flabellata*, Thunb. Tropical and South Africa.
- P. geraniifolia*, Raddi. *See* *Pellæa*.
- P. Ghiesbreghtii*, J. Sm. *See* *laciniata*.
- P. grevilleana*, Wall. Northern India.
var. *variegata*, Hort.
- P. heterophylla*, L. West Indies. Bot. Mag. t. 4925.
var. *internata*, Baker. West Indies.
- P. incisa*, Thunb. Tropical and subtropical regions.
var. *Vespertilionis*, (Labill.). Australia.
- P. internata*, Moore. *See* *heterophylla*, var.
- P. laciniata*, Willd. West Indies, Tropical America.
var. *Ghiesbreghtii*, Baker. Mexico.
- P. leptophylla*, Sw. Brazil. Hook. Gard. Ferns, t. 23.
var. *argentea*, Hort.



Pteris, *L.*—*cont.*

P. longifolia, *L.* Tropical and subtropical regions.

var. *Mariesii*, *Hort.* Japan.

P. ludens, *Wall.* India, Malaya. *Doryopteris ludens*,
Bedd. Handb. Ferns Ind. 119.

P. Maissonieri, *Hort.* See *cretica*, var.

P. moluccana, *Bl.* Malaya.

P. nemoralis, *Willd.* See *biaurita*, var.

P. nobilis, *Hort.* See *palmata*, var.

P. palmata, *Willd.* West Indies, Tropical America.
Hook. Gard. Ferns, t. 22.

var. *nobilis*, *Hort.*

P. pedata, *L.* West Indies, Tropical America. Hook.
Fil. Exot. t. 34.

P. pellucida, *Presl.* India, Malaya, Tropical Africa.

P. pulchra, *Schl.* Mexico.

P. pungens, *Willd.* West Indies.

P. quadriaurita, *Retz.* Tropics, ubiquitous. Bot. Mag.
t. 5183.

var. *argyræa*, (*Moore*) *Baker.*

var. *rubricaulis*, (*J. Sm.*) *Baker.*

var. *tricolor*, *Hort.*

P. sagittifolia, *Raddi.* Brazil. Hook. Fil. Exot. t. 39.

P. scaberula, *A. Rich.* New Zealand.

P. semipinnata, *L.* Tropical and Sub-tropical Asia.
Hook. Gard. Ferns, t. 59.

var. *Bausei*, *Hort.*

var. *gigantea*, *Hort.*



Pteris, L.—cont.

P. serrulata, L. fl. China, Japan, Natal.

var. *cristata*, Hort.

var. *voluta*, Hort.

P. straminea, Mett. Chili.

P. sulcata, Link. See *quadriaurita*.

P. tremula, R. Br. Australia and New Zealand.

P. Vespertilionis, Labill. See *incisa*, var.

P. Victorice, Hort. See *ensiformis*, var

P. viridis, Forsk. See *Pellæa hastata*.

P. wallichiana, Ag. Himalaya, Japan, Philippines.

Pteropsis. See *Tænitis*.

Pycnopteris. See *Nephrodium*.

Rhipidopteris. See *Acrostichum*.

Sagenia. See *Nephrodium*.

Salpichlæna. See *Blechnum*.

Schellolepis. See *Polypodium*.

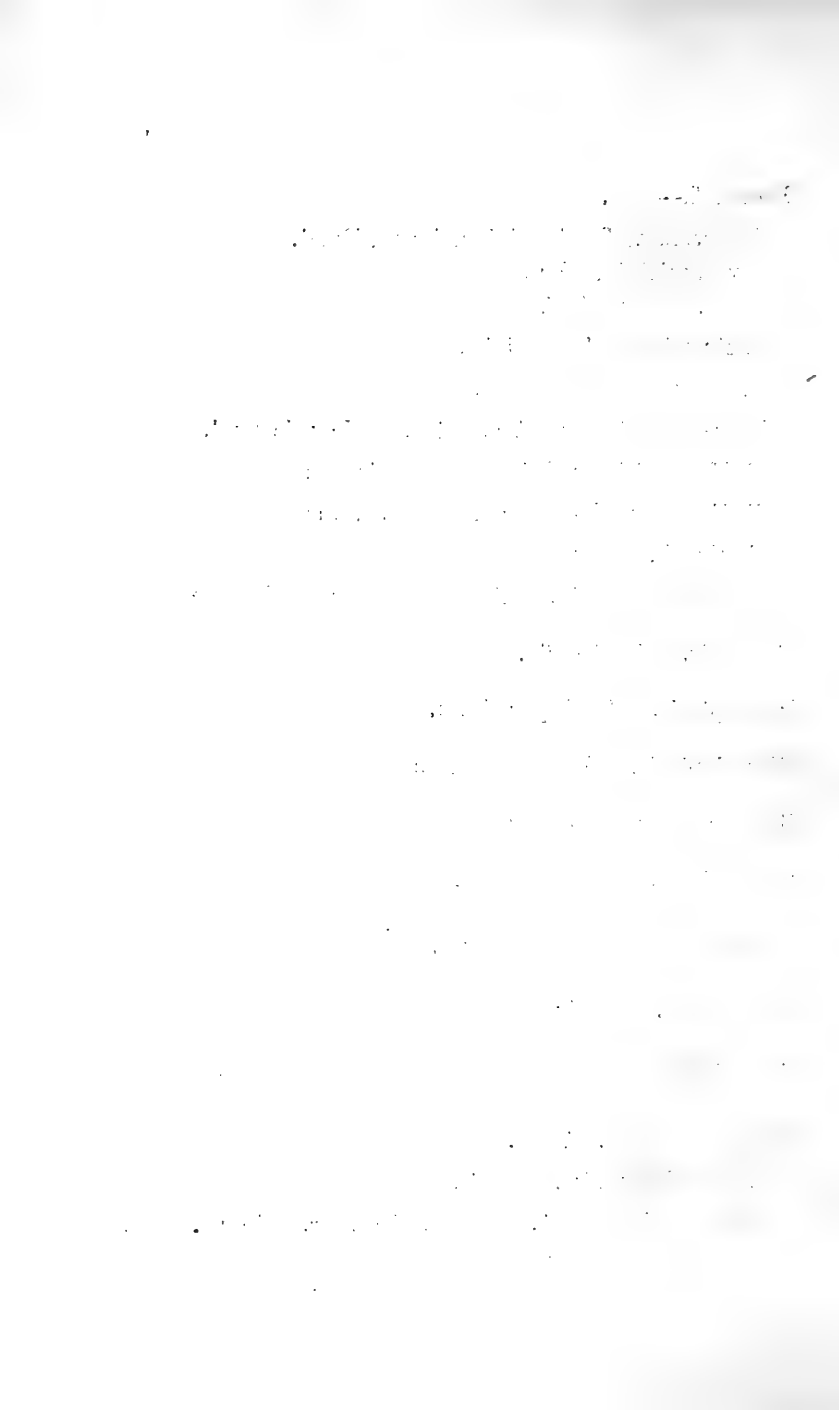
Schizocæna. See *Cyathea*.

Schizoloma. See *Lindsaya*.

Scolopendrium, J. E. Sm.

S. braziliense, Kze. Brazil.

S. Delavayi, Franch. China, Munipur. Journ. Linn. Soc. xxv. t. 41.



Scolopendrium, *J. E. Sm.*—*cont.*

S. Krebsii, Kze. *See* *Lomaria punctulata*.

S. rhizophyllum, *Hook.* North America. *Camptosorus rhizophyllus*, Presl ; *Hook. Fil. Exot. t. 85.*

*S.*vulgare*, *J. E. Sm.* North temperate zone. *Hook. Brit. Ferns, t. 37.*

Selliguea. *See* *Gymnogramme.*

Sitolobium. *See* *Dicksonia.*

Soromanes. *See* *Acrostichum Cænopteris.*

Stegania. *See* *Lomaria.*

Stenochlæna. *See* *Acrostichum.*

Stenoloma. *See* *Davallia.*

Stenosemia. *See* *Acrostichum.*

Struthiopteris. *See* *Onoclea.*

Tæniopsis. *See* *Vittaria.*

Thyrsopteris, *Kze.*

T. elegans, *Kze.* Juan Fernandez.

Todea, *Willd.*

T. africana, *Willd.* *See* *barbara.*

T. barbara, *Moore.* South Africa, Australia, New Zealand. *Bot. Mag. t. 5954.*

* For garden varieties, *see* p. 181.

Todea, Willd—cont.

- T. Fraseri**, Hook. & Grev. Ic. Fil. t. 101. Australia, New Caledonia.
 var. *wilkesiana*, Baker. Fiji, New Hebrides, New Guinea. *T. wilkesiana*, Brackenr.; Ill. Hort. 1875, t. 226.
- T. grandipinnula*, Moore. See Moorei.
- T. hymenophylloides**, Rich. & Less. New Zealand. Hook. Gard. Ferns, t. 54.
- T. intermedia*, Hort. See hymenophylloides.
- T. Moorei**, Baker. Lord Howe Island.
- T. pellucida*, Carm. See hymenophylloides.
- T. rivularis*, Sieb. See barbara.
- T. superba**, Col. New Zealand. Ill. Hort. 1870, t. 23.
- T. wilkesiana*, Brackenr. See Fraseri, var.

Trichomanes, L.

- T. alatum**, Sw. West Indies, Tropical America. Hook. & Grev. Ic. Fil. t. 11.
 var. *attenuatum*, Griseb. West Indies.
- T. angustatum*, Carm. See tenerum.
- T. attenuatum*, Hook. See alatum, var.
- T. auriculatum**, Bl. Tropical Asia.
- T. Bancroftii**, Hook. & Grev. West Indies, Tropical America. Hook. Gard. Ferns, t. 56.
- T. bipunctatum*, Poir. See Filicula.
- T. Bojeri*, Hook. & Grev. See cuspidatum.
- T. boschianum*, Sturm. See radicans, var.
- T. Colensoi**, Hook. f. New Zealand. Hook. Ic. Pl. t. 979.



Trichomanes, L.—cont.

- T. crispum, L.** West Indies, Tropical America. Hook. Gard. Ferns, t. 27.
- T. cuspidatum, Willd.** Mascarene Islands.
- T. elongatum, Cunn.** *See rigidum, var.*
- T. exsectum, Kze.** Chili, Juan Fernandez.
- T. Filicula, Bory.** Tropical Asia and Africa.
- T. fœniculaceum, Bory.** Mascarene Is., Borneo, Australia.
- T. hirtellum, Poir.** *See Hymenophyllum.*
- T. humile, Forst.** Java, New Zealand, Polynesia. Hook. & Grev. Ic. Fil. t. 85.
- T. Kaulfussii, Hook & Grev.** West Indies, Tropical America.
- T. labiatum, Jenm.** British Guiana.
- T. luschnathianum, Presl.** *See radicans, var.*
- T. Lyallii, Hook.** New Zealand.
- T. maximum, Bl.** Malaya, Polynesia, N. Australia.
- T. membranaceum, L.** West Indies, Tropical America.
- T. muscoides, Sw.** Tropics.
- T. parviflorum, Poir.** *See fœniculaceum.*
- T. parvulum, Poir.** Tropics of the Old World.
- T. pinnatum, Sw.** West Indies, Tropical America. Hook. Gard. Ferns, t. 8.
- T. Prieurii, Kze.** West Indies, Tropical America.
- T. pyxidiferum, L.** Tropics, ubiquitous. Hook. & Grev. Ic. Fil. t. 206.
- T. radicans, Sw.** Tropical, subtropical and temperate regions.
var. **Andrewsii, Newm.** Ireland.

Trichomanes, L.—cont.**T. radicans, Sw.—cont.**

var. *boschianum*, (*Sturm*) *Baker*. Alabama.

var. *luschnathianum*, *Baker*. Brazil.

var. *luschnathianum prolongatum*, *Hort*.

var. *proliferum*, *Hort*.

T. reniforme, Forst. New Zealand. Hook. Fil. Exot. t. 2.

T. reptans, Sw. West Indies, Tropical America. Hook. & Grev. Ic. Fil. t. 32.

T. rigidum, Sw. Tropics, ubiquitous.

var. *elongatum*, *Baker*. New Zealand.

T. scandens, L. West Indies, Central America.

T. sinuosum, L. C. Rich. West Indies, Tropical America. Hook. & Grev. Ic. Fil. t. 13.

T. spicatum, Hedw. West Indies, Tropical America. Hook. Gard. Ferns, t. 60.

T. tenerum, Spreng. Tropical America.

T. trichoideum, Sw. West Indies, Tropical America. Hook. & Grev. Ic. Fil. t. 199.

T. venosum, R. Br. Australia and New Zealand.

Vittaria, J. E. Sm.

V. lineata, Sw. Tropical and subtropical regions.

Woodsia, R. Br.

W. ilvensis, R. Br. Arctic and North temperate zone. Hook. Brit. Ferns, t. 8.

W. oregana, D. C. Eaton. North America.

W. scopulina, D. C. Eaton. North America.



Woodwardia, J. E. Sm.

W. angustifolia, J. E. Sm. *See areolata.*

W. areolata, *Moore.* United States. Hook. Gard. Ferns, t. 61.

W. Harlandii, *Hook.* Hong Kong. Hook. Fil. Exot. t. 7.

W. japonica, *Sw.* China and Japan.

W. radicans, *Sw.* North temperate zone.

var. **americana**, *Hook.* Southern United States.

var. **Brownii**, *Hort.*

var. *cristata*, *Hort.* *See* var. **Brownii.**

var. **plumosa**, *Hort.*

W. virginica, *J. E. Sm.* North America.

Xiphopteris. *See* **Polypodium.**



II.—FERN ALLIES.

Azolla, *Lam.*

A. caroliniana, *Willd.* Tropical and subtropical America.

A. pinnata, *R. Br.* Australia.

Bernhardia. *See* *Psilotum*.

Equisetum, *L.*

E. arvense, *L.* North temperate and Arctic regions.
Hook. Brit. Ferns, t. 60.

E. fluviatile, *L.* *See* *limosum*.

E. hyemale, *L.* North temperate and Arctic regions.
Hook. Brit. Ferns, t. 64.

E. limosum, *L.* North temperate and Arctic regions.
Hook. Brit. Ferns, t. 62.

E. maximum, *Lam.* North temperate regions.

E. ramosissimum, *Desf.* Warm temperate and tropical regions.

E. robustum, *A. Br.* North and central America.

E. scirpoides, *Michx.* North temperate and Arctic regions.

Isoetes, *L.*

I. lacustris, *L.* Europe and North America. Hook.
Brit. Ferns, t. 55.

I. malivernianum, *Cesati & De Not.* Italy.

Lycopodium, L.

- L. carinatum**, *Desv.* India, Malaya, Polynesia. *L. acrostachyum*, Wall. ; Hook. & Grev. Ic. Fil. t. 181.
- L. clavatum**, *L.* Arctic and Alpine zones ; on mountains in the tropics.
- L. dalhousieanum**, *Spring.* Malay Peninsula, Borneo.
- L. dichotomum**, *Jacq.* West Indies, Tropical America.
- L. fontinaloides**, *Spring.* Brazil.
- L. Hippuris**, *Desv.* See *squarrosus*.
- L. Hookeri**, Wall. See *squarrosus*.
- L. lucidulum**, *Michx.* Himalaya, China, Japan, North America.
- L. obscurum**, *L.* North Asia, North America.
- L. Phlegmaria**, *L.* Tropics of the Old World.
- L. scariosum**, *Forst.* New Zealand.
- L. squarrosus**, *Forst.* India, Malaya, Polynesia. Mascarene Is. *L. Hookeri*, Wall. ; Hook. & Grev. Ic. Fil. t. 185.
- L. taxifolium**, *Sw.* West Indies, Tropical America. Hook. & Grev. Ic. Fil. t. 131.

Marsilea, L.

- M. macra**, *A. Br.* Australia.
- M. Nardu**, *A. Br.* Australia.

Pilularia, L.

- P. globulifera**, *L.* Europe. Hook. Brit. Ferns, t. 57.



Psilotum, Sw.

P. triquetrum, Sw. Tropics, extending to New Zealand, Japan, and Florida. Hook. Fil. Exot. t. 63.

var. *mascarenica*, Hort.

Salvinia, Schreb.

S. natans, Hoffm. Subtropics of the Old World.

Selaginella, Spring.

S. africana, A. Br. See *Vogelii*.

S. albonitens, Spring. West Indies.

S. albospica, Hort. See *stenophylla*, var.

S. amœna, Hort. See *caulescens*.

S. apus, Spring. North America.

var. *elegans*, Hort.

S. argentea, Spring. See *caulescens*, var.

S. atroviridis, Spring. Tropical Asia. *Lycopodium atroviride*, Wall. ; Hook. & Grev. Ic. Fil. t. 39.

S. bakeriana, Bailey. Queensland.

S. bellula, Moore. See *inæqualifolia*, var. *perelegans*.

S. Braunii, Baker. China.

S. cœsia, Hort. See *uncinata*.

S. canaliculata, Baker. Tropical Asia.

S. caudata, Spring. See *canaliculata*.

S. caulescens, Spring. Tropical Asia.

var. *amœna*, Hort.

var. *argentea*, Baker. Malay Peninsula.

var. *japonica*, MacNab. Japan.

var. *minor*, Hort.

Selaginella, Spring—cont.

- S. concinna, Spring.** Mascarene Islands.
- S. conferta, Moore.** *See* canaliculata.
- S. cuspidata, Link.** West Indies, Tropical America.
var. **elongata, Spring.** Guatemala.
- S. delicatissima, A. Br.** Andes.
- S. densa, Hort.** *See* apus.
- S. denticulata, Hort.** *See* kraussiana.
- S. dichroa, Hort.** *See* Vogelii.
- S. Douglasii, Spring.** North America.
- S. emiliana, Hort.**
- S. erythropus, Spring.** West Indies, Tropical America.
var. **minor, Hort.**
var. **setosa, Hort.**
- S. filicina, Spring.** *See* hæmatodes.
- S. flabellata, Spring.** Tropical and subtropical regions.
- S. flagellifera, Hort.** *See* plumosa, var.
- S. Galeottii, Spring.** Central America.
- S. geniculata, Spring.** Tropical America.
- S. grandis, Moore.** Borneo. Gard. Chron. 1882, xviii.
40, figs. 7–8.
- S. hæmatodes, Spring.** West Indies, Tropical America.
- S. helvetica, Link.** Europe, North Asia.
- S. inæqualifolia, Spring.** Tropical Asia.
var. **perelegans, Baker.** Tropical Asia. *S. bellula*,
Moore, Gard. Chron. 1879, xi. 173, fig. 25.
- S. involvens, Spring.** China, Japan, E. Himalaya,
Philippine Is.
var. **texta, Baker.**

Selaginella, *Spring*—*cont.*

S. kraussiana, *A. Br.* South Africa, W. Tropical Africa.
Azores.

var. **aurea**, *Hort.*

var. **Brownii**, *Hort.*

var. **Stansfieldii**, *Hort.*

S. lævigata, *Baker.* Madagascar.

var. **Lyallii**, *Baker.* Madagascar.

S. lepidophylla, *Spring.* Tropical America.

S. leptostachya, *Bailey.* *See bakeriana.*

S. Lyallii, *Spring.* *See lævigata*, var.

S. Martensii, *Spring.* Mexico. *S. pæppigiana*, *Spring*;
Hook. Fil. Exot. t. 56.

var. **dichotoma**, *Hort.*

var. **variegata**, *Hort.*

S. Mettenii, *A. Br.* Garden origin.

S. molliceps, *Spring.* Tropical Africa, Madagascar.

S. mutabilis, *Hort.* *See serpens.*

S. nobilis, *Hort.* Garden origin.

S. patula, *Spring.* West Indies.

S. perelegans, *Moore.* *See inæqualifolia*, var.

S. pilifera, *A. Br.* Texas, Central Mexico.

S. plumosa, *Baker.* Tropical Asia.

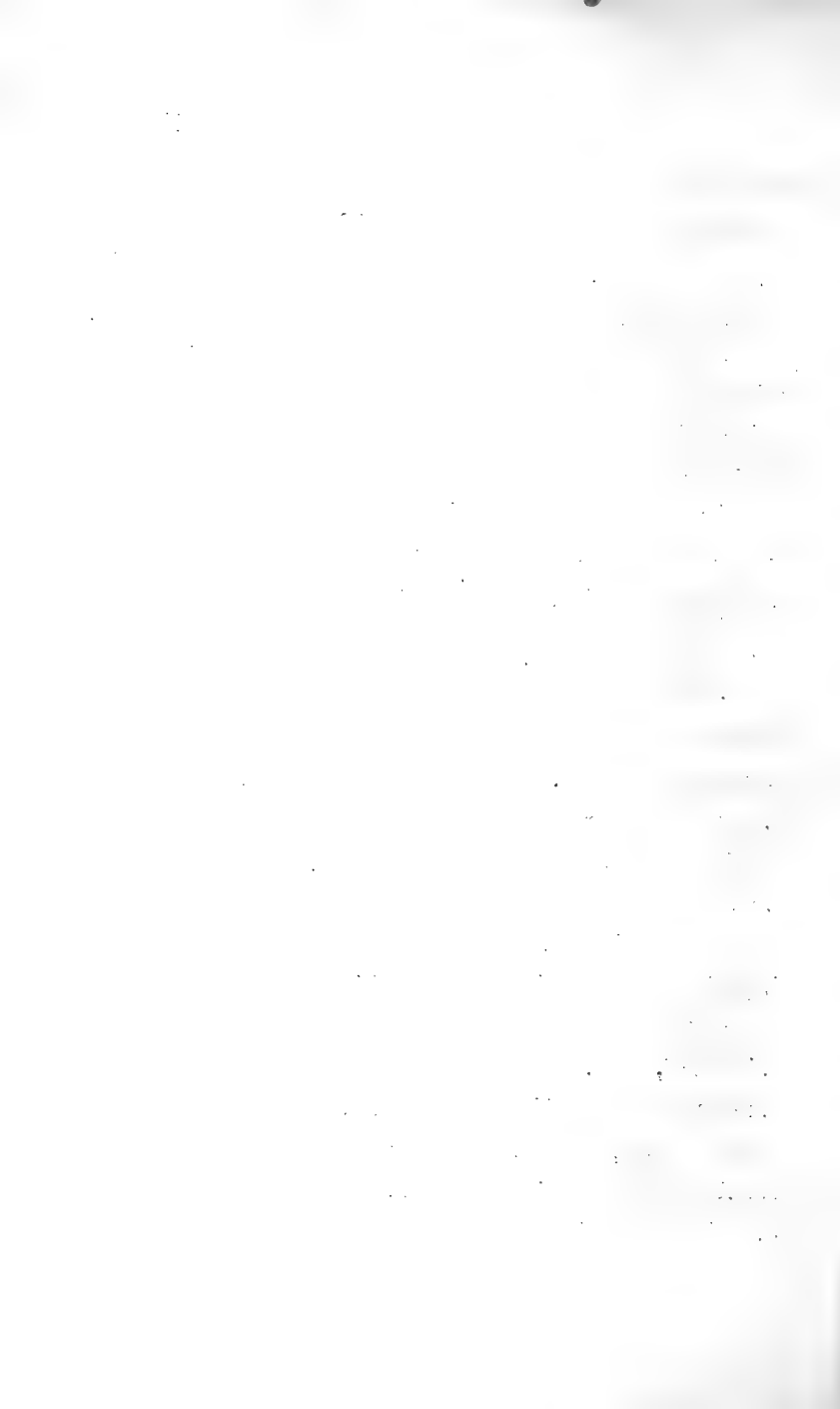
S. Poulteri, *Hort.* Azores.

S. radiata, *Baker.* Tropical America.

S. radicata, *Spring.* *See plumosa.*

S. rubella, *Moore.* Garden origin.

S. rubricaulis, *Hort.* *See suberosa.*



elaginella, *Spring*—*cont.*

S. rupestris, *Spring*. North and south temp. zones ; mountains in the tropics.

S. serpens, *Spring*. West Indies.

S. strobilifera, *Hort*. *See rubella*.

S. tassellata, *Hort*. Brazil.

S. texta, *Hort*. *See involvens*.

S. uncinata, *Spring*. China.

S. usta, *Vieill*. New Caledonia.

S. Victoriae, *Moore*. Malaya, Fiji.

S. viridangula, *Spring*. Fiji.

S. viticulosa, *Klotzsch*. Central America, Venezuela.

S. Vogelii, *Spring*. Tropical Africa, Madagascar.

var. *dichroa*, *Hort*.

S. Wallichii, *Spring*. Tropical Asia.

S. Warscewiczii, *Klotzsch*. *See radiata*.

S. watsoniana, *Hort*. Garden origin.

S. Willdenovii, *Baker*. Tropical Asia. *Lycopodium*
Willdenovii, *Desv.* ; *Hook. & Grev. Ic. Fil. t. 57.*

Tmesipteris, *Bernh.*

T. Fosteri, *Endl.* *See tannensis*.

T. tannensis, *Bernh.* Australia, New Zealand, Polynesia. *T. truncata*, *Bernh.* ; *Hook. Gen. Fil. t. 86.*

III.—APPENDIX.

Cultural Forms of British Ferns.

Adiantum, *L.*

A. Capillus-Veneris, *L.*

var. *daphnites*, *Lowe*.

var. *elegantissimum*, *Hort*.

var. *grande*, *Moore*.

var. *imbricatum*, *Lowe*.

var. *Mariesii*, *Moore*.

var. *obrienianum*, *Birkenhead*.

var. *semilunatum*, *Lowe*.

Aspidium, *Sw.*

A. aculeatum, *Sw.*

var. *Braunii*, *Hort*.

var. *cruciatum*, *Jones*.

var. *densum*, *Moore*.

var. *furcans*, *Hort*.

var. *grandiceps*, *Jones*.

var. *multifidum*, *Woll*.

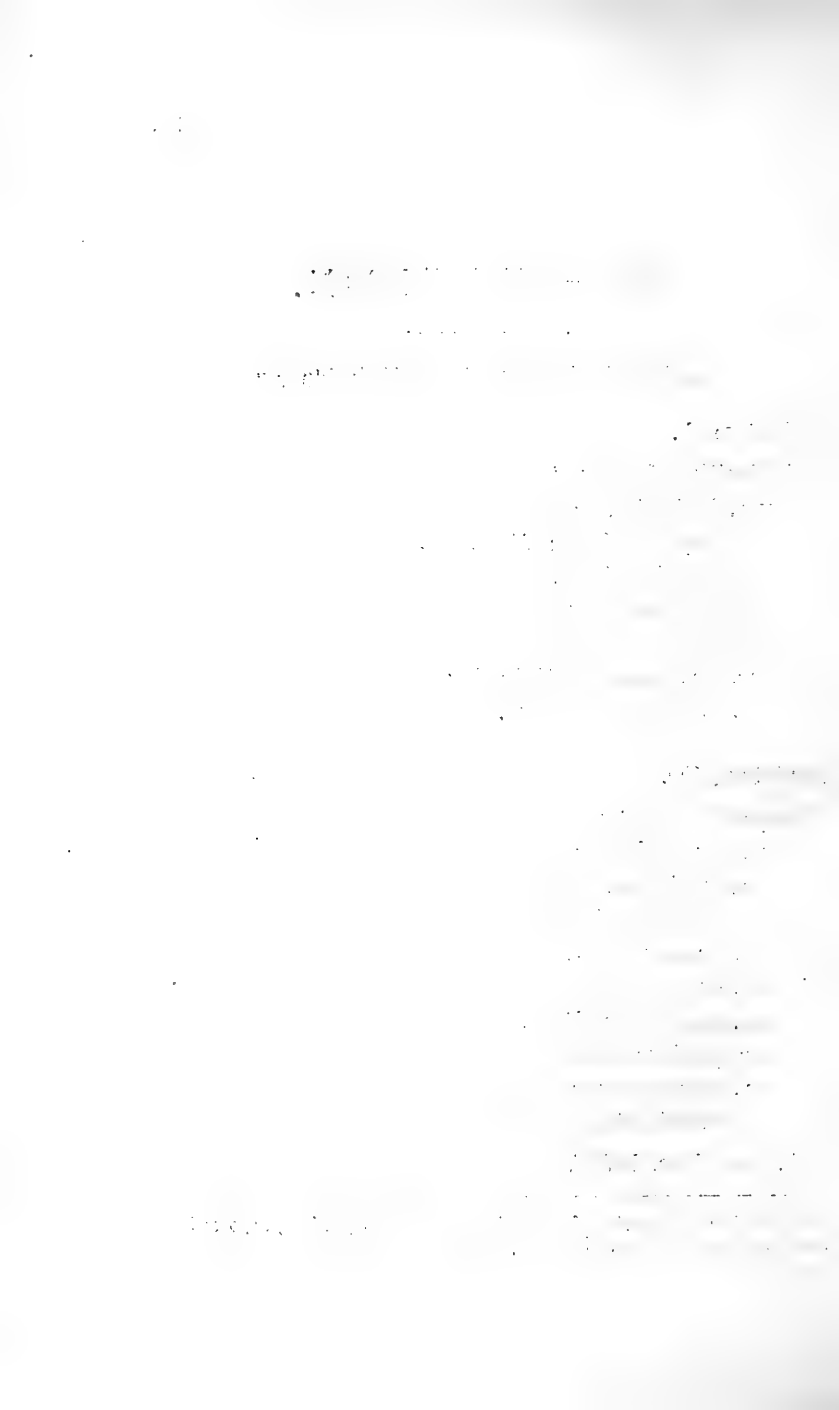
var. *proliferum*, *Woll*.

var. *pulcherrimum*, *Jones*.

var. *suberistatum*, *Jones*.

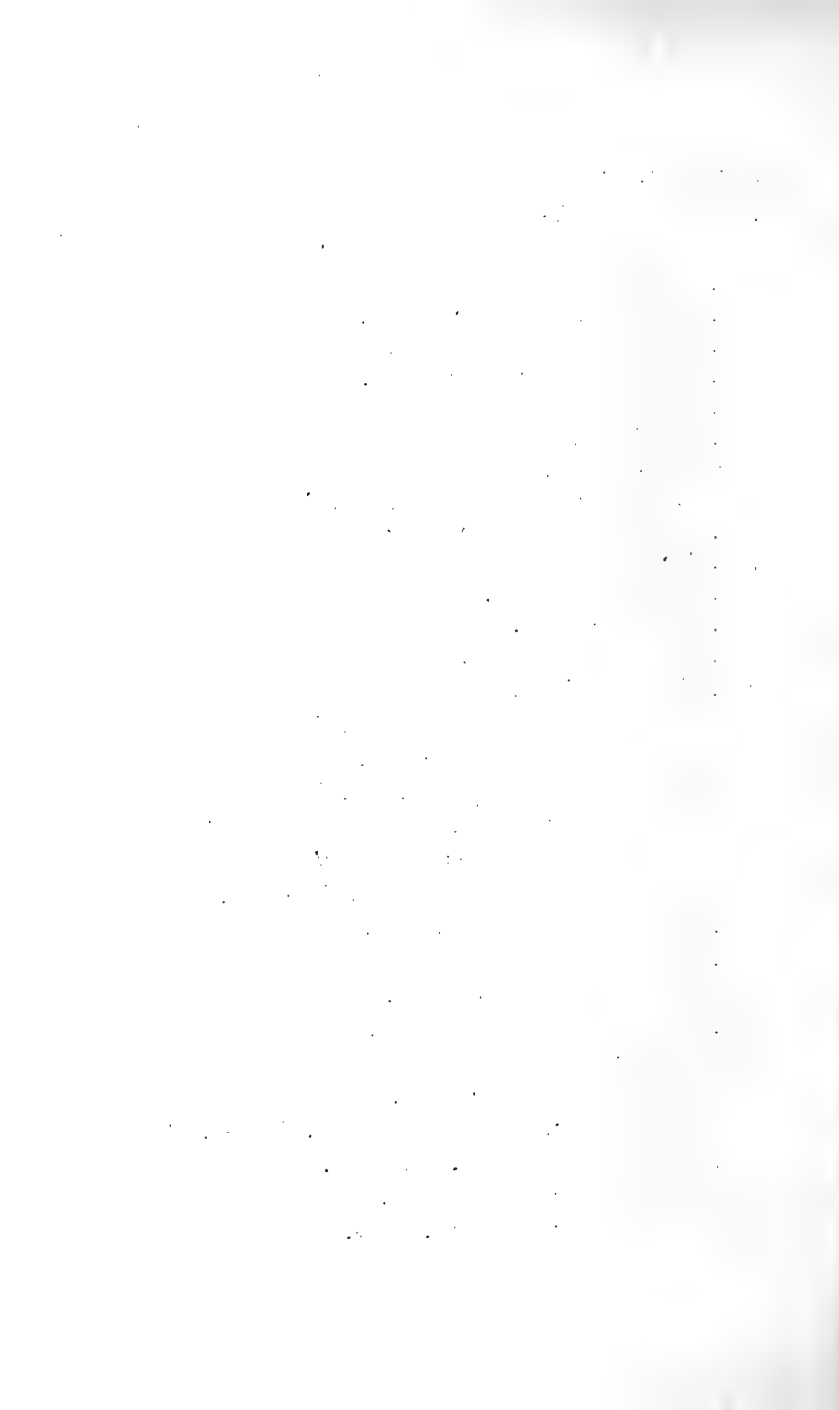
*A. *angulare*, *Willd.*

* This is a sub-species of *A. aculeatum*, but for garden purposes it is more convenient to treat it as a species.



Aspidium, Sw.—cont.**A. angulare, Willd.—cont.**

- var. *acutilobum*, Woll. Lowe, Nat. Ferns, i. 127.
- var. *acutilobum acutum*, Lowe.
- var. *acutilobum proliferum*, Moore.
- var. *acuto-dissectum*, Carbonell.
- var. *acuto-divaricatum*, Carbonell.
- var. *assimile*, Jones.
- var. *athyrioides*, Woll.
- var. *Bayliæ*, Lyell.
- var. *brachiatum*, Moore. Lowe, Nat. Ferns, i. 106.
- var. *brachiatum cristatum*, Jarvis.
- var. *Buckleæ*, Lowe.
- var. *calomelanos*, Jones.
- var. *capitatum*, Clap.
- var. *caudatum*, Carbonell.
- var. *Claphami*, Jones.
- var. *concinnum*, Moore. Lowe, Nat. Ferns, i. 173.
- var. *confluens*, Moore. Lowe, Nat. Ferns, i. 167.
- var. *congestum*, Moore. Lowe, Nat. Ferns, i. 120.
- var. *conspicuilobum*, Lowe.
- var. *conspicuilobum acutum*, Carbonell.
- var. *cristatum*, Moore. Lowe, Nat. Ferns, i. t. 16.
- var. *cristatum clintonianum*, Hort.
- var. *cristatum gracile*, Woll.
- var. *cristatum grandiceps*, Hort.
- var. *cruciato-polydactylum*, Jones.
- var. *cruciatum*, Lowe.
- var. *cruciatum proliferum*, Hort.
- var. *decompositum*, Moore. Lowe, Nat. Ferns, i. 79.
- var. *decompositum densum*, Carbonell.
- var. *decompositum grande*, Jones.
- var. *decompositum plumosum*, Jones.

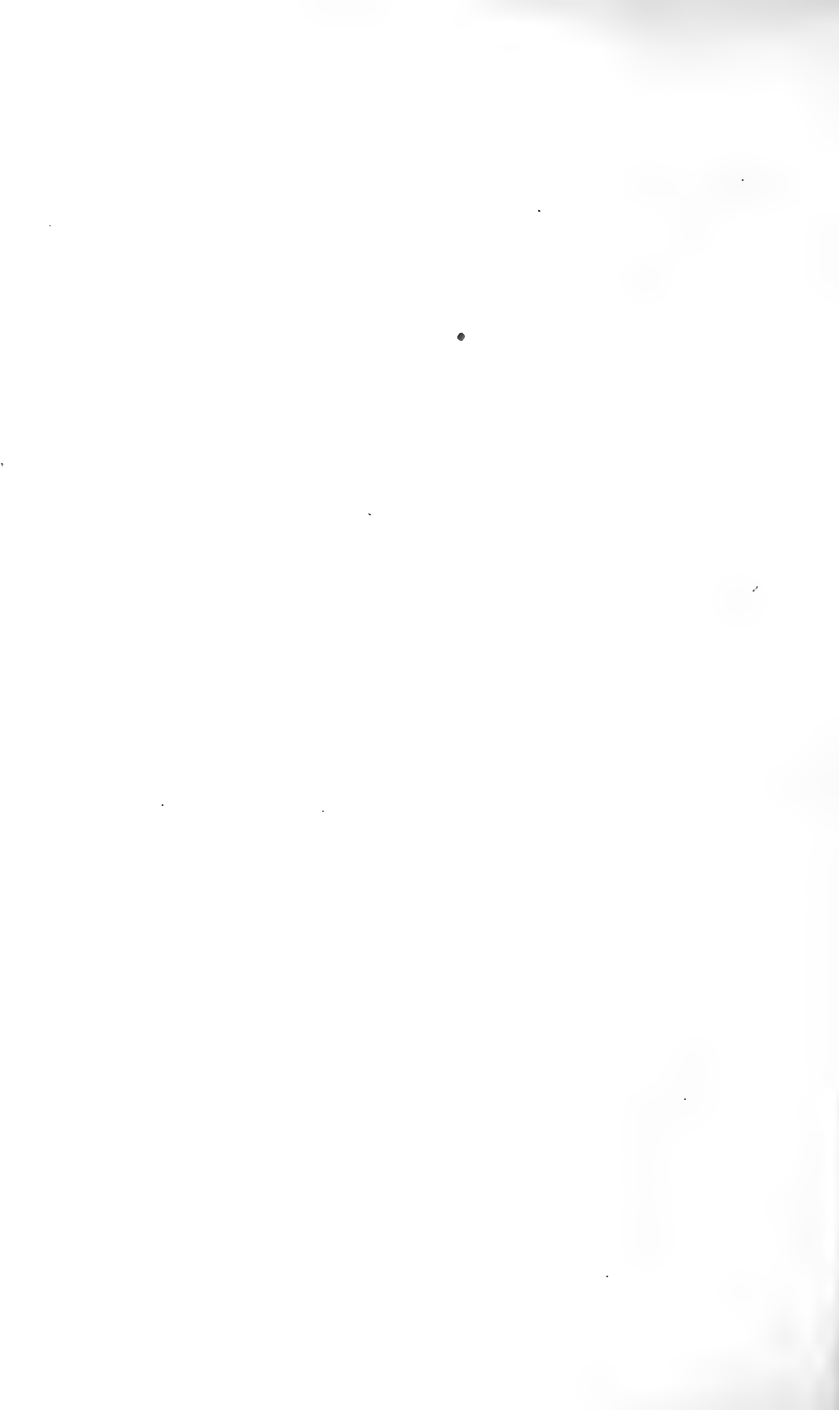


*Aspidium, Sw.—cont.**A. angulare, Willd.—cont.*

- var. *decompositum polydactylum, Jones.*
- var. *decompositum robustum, Jones.*
- var. *decompositum splendens, Jones.* Lowe, Nat. Ferns, i. 174.
- var. *decurrens, Moore.* Lowe, Nat. Ferns, i. 98.
- var. *densum, Moore.* Lowe, Nat. Ferns, i. 96.
- var. *divisilobum, Woll.*
- var. *divisilobum acutum, Jones.*
- var. *divisilobum cristatum, Ivery.*
- var. *divisilobum decorum, Jones.*
- var. *divisilobum densum, Carbonell.*
- var. *divisilobum foliosum, Jones.*
- var. *divisilobum lineare, Jones.*
- var. *divisilobum multifidum, Jones.*
- var. *divisilobum plumosum, Lowe.*
- var. *divisilobum proliferum, Woll.*
- var. *divisilobum reflexum, Jones.*
- var. *divisilobum robustum, Jones.*
- var. *divisilobum splendidissimum, Jones.*
- var. *dubium, Woll.* Lowe, Nat. Ferns, i. 86.
- var. *flexuosum, Woll.* Lowe, Nat. Ferns, i. 133.
- var. *flexuosum polydactylum, Jones.*
- var. *folioso-decompositum, Jones.*
- var. *foliosum, Woll.* Lowe, Nat. Ferns, i. 117.
- var. *foliosum multifidum, Jones.*
- var. *frondosum, Jones.*
- var. *frondosum decompositum, Jones.*
- var. *frondosum polydactylum, Jones.*
- var. *grandiceps, Moore.* Lowe, Nat. Ferns, i. 150.
- var. *grandidens, Jones.* Lowe, Nat. Ferns, i. 85.
- var. *inæquale variegatum, Woll.*

Aspidium, Sw.—cont.**A. angulare, Willd.—cont.**

- var. *inciso-acutum*, *Stansf.* Lowe, Nat. Ferns, i. 137.
- var. *Kitsoniæ*, *Moore.* Lowe, Nat. Ferns, i. 124.
- var. *laciniatum*, *Woll.* Lowe, Nat. Ferns, i. 94.
- var. *laciniatum flexuosum*, *Hort.*
- var. *lanceolatum*, *Moore.*
- var. *latifolium*, *Woll.*
- var. *latifolium grandiceps*, *Jones.*
- var. *laxo-crispum*, *Jones.*
- var. *lineare*, *Moore.* Lowe, Nat. Ferns, i. 93.
- var. *lineare polydactylum*, *Jones.*
- var. *lineatum*, *Moly.*
- var. *Marshallii*, *Hort.*
- var. *multifidum densum*, *Jones.*
- var. *multilobum*, *Woll.* Lowe, Nat. Ferns. i. 121.
- var. *multilobum densum*, *Jones.*
- var. *multilobum multifidum*, *Jones.*
- var. *multilobum ovale*, *Woll.*
- var. *multilobum polydactylum*, *Jones.*
- var. *multilobum revolvens*, *Jones.*
- var. *oxyphyllum*, *Moore.* Lowe, Nat. Ferns, i. 116.
- var. *Pateyi*, *Moore.*
- var. *pendens*, *Jones.*
- var. *perserratum*, *Jones.*
- var. *plumosum*, *Woll.* Lowe, Nat. Ferns, i. 113.
- var. *plumosum elegantissimum*, *Jones.*
- var. *polydactylum*, *Moore.* Lowe, Nat. Ferns, i. 114.
- var. *polydactylum capitatum*, *Jones.*
- var. *polydactylum cruciatum*, *Lowe.*
- var. *polydactylum grande*, *Jones.*
- var. *polydactylum grandiceps*, *Jones.*
- var. *polydactylum laxum*, *Jones.*



Aspidium, Sw.—cont.**A. angulare, Willd.—cont.**

- var. polydactylum multifidum, *Jones*.
- var. polydactylum robustum, *Jones*.
- var. proliferum, *Moore*. *Lowe, Nat. Ferns, i. 80.*
- var. proliferum densum, *Carbonell*.
- var. proliferum holeanum, *Moore*.
- var. pulcherrimum, *Moore*.
- var. pulchrum, *Moore*.
- var. raino-variens, *Jones*.
- var. remoto-decurrens, *Woll*.
- var. revolvens, *Moore*.
- var. rotundum polydactylon, *Hort*.
- var. scalptum, *Carbonell*.
- var. Stansfieldii, *Lowe*.
- var. stipatum, *Woll*.
- var. stipitatum, *Moore*.
- var. subpinnatum, *Hort*.
- var. subplumosum, *Woll*.
- var. Thompsoniæ, *Lowe. Nat. Ferns, i. 140.*
- var. torto-cristatum, *Padley*.
- var. tripinnatum, *Moore. Lowe, Nat. Ferns, i. 78.*
- var. tripinnatum decompositum, *Lowe. Nat. Ferns, i. 172.*
- var. tripinnatum elegans, *Hort*.
- var. tripinnatum polydactylum, *Jones*.
- var. varians, *Woll. Lowe, Nat. Ferns, i. 105.*
- var. venustum, *Moore*.
- var. Wollastoni majus, *Hort*.

Asplenium, L.**A. Filix-fœmina, Bernh.**

- var. abasiphyllum, *Lowe*.

Asplenium, *L.*—*cont.*

A. Filix-fœmina, *Bernh.*—*cont.*

- var. *adpresso-cristatum*, *Jones*.
- var. *Andersoni*, *Hort*.
- var. *angustatum*, *Lowe*.
- var. *apuæforme*, *Moore*. *Lowe*, *Nat. Ferns*, ii. 26.
- var. *axminsterense*, *Lowe*.
- var. *cancellatum cristatum*, *Jones*.
- var. *caudiculatum*, *Mapp*.
- var. *ceratophyllum*, *Mapp*.
- var. *clarissimum*, *Jones*.
- var. *congestum cristatum*, *Stansf*.
- var. *conoides cristatum*, *Stansf*.
- var. *coronatum*, *Lowe*. *Nat. Ferns*, ii. 35.
- var. *corymbiferum*, *Moore*.
- var. *Craigii*, *Moore*.
- var. *Craigii laciniatum*, *Jones*.
- var. *crispum coronatum*, *Jones*. *Lowe*, *Nat. Ferns*, ii. 36.
- var. *crispum cristatum*, *Carbonell*.
- var. *cristato-cristatum*, *Hort*.
- var. *cristatum*, *Woll*.
- var. *cristatum capitatum*, *Carbonell*.
- var. *cristatum densum*, *Carbonell*.
- var. *cristatum reflexum*, *Carbonell*.
- var. *cruciato-capitatum*, *Carbonell*.
- var. *cruciato-coronatum*, *Carbonell*.
- var. *cruciato-cristatum*, *Jones*.
- var. *cruciato-gracile*, *Jones*.
- var. *cruciato-grandiceps*, *Jones*.
- var. *cruciato-magnificum*, *Jones*.
- var. *cruciato-multifidum*, *Stansf*.
- var. *cruciatum*, *Jones*.



Asplenium, *L.*—*cont.*

A. Filix-fœmina, *Bernh.*—*cont.*

- var. *cruciatum corymbiferum*, *Hort.*
- var. *curtum*, *Woll.* Lowe, Nat. Ferns, ii. 32.
- var. *curtum cristatum*, *Stansf.*
- var. *daphnites*, *Glave.*
- var. *daphnites capitatum*, *Glave.*
- var. *defecto-furcellans*, *Hort.*
- var. *defecto-gracile*, *Mapp.*
- var. *diffidum*, *Jones.*
- var. *diffiso-multifidum*, *Moore.* Lowe, Nat. Ferns,
ii. 44.
- var. *digitale capitatum*, *Jones.*
- var. *digitale purpureum*, *Jones.*
- var. *Elworthii*, *Moore.* Lowe, Nat. Ferns, ii. 46.
- var. *Fieldiæ*, *Moore.* Lowe, Nat. Ferns, ii. 50.
- var. *Fieldiæ minus*, *Jones.*
- var. *fissidens*, *Moore.* Lowe, Nat. Ferns, ii. 52.
- var. *flabelliceps*, *Carbonell.*
- var. *flexuosum*, *Woll.* Lowe, Nat. Ferns, ii. 49.
- var. *folioso-crispatum*, *Carbonell.*
- var. *folioso-cristatum*, *Woll.*
- var. *Frizelliæ*, *Moore.* Lowe, Nat. Ferns, ii. 53.
- var. *Frizelliæ cristatum*, *Jones.* Lowe, Nat. Ferns,
ii. 142.
- var. *Frizelliæ multifidum*, *Barnes.*
- var. *Frizelliæ nanum*, *Ivery.* Lowe, Nat. Ferns, ii. 54.
- var. *furcans*, *Moore.*
- var. *germanicum*, *Hort.*
- var. *glomeratum*, *Moore.* Lowe, Nat. Ferns, ii. 56.
- var. *glomeratum grandiceps*, *Jones.*
- var. *gracile*, *Moore.*
- var. *grammicon*, *Lowe.*
- var. *grandiceps*, *Moore.*



Asplenium, *L.*—*cont.*

A. Filix-fœmina, *Bernh.*—*cont.*

- var. *grandiceps globosum*, *Sim.*
- var. *grandiceps minus*, *Carbonell.*
- var. *grandiceps pumilum*, *Sim.*
- var. *Howardæ*, *Moore.*
- var. *imbricatum*, *Carbonell.*
- var. *inæquale*, *Woll.*
- var. *inæquale cristatum*, *Jones.*
- var. *interruptum*, *Moore.* Lowe, Nat. Ferns, ii. 62.
- var. *irregulare*, *Moore.* Lowe, Nat. Ferns, ii. 63.
- var. *kalothrix*, *Lowe.*
- var. *laceratum*, *Moore.* Lowe, Nat. Ferns, ii. 66.
- var. *laciniatum*, *Moore.* Lowe, Nat. Ferns, ii. t. 39A.
- var. *laciniatum caudatum*, *Hort.*
- var. *laciniatum elegans*, *Stansf.*
- var. *laciniatum furcans*, *Jones.*
- var. *laciniatum multifidum*, *Lowe.*
- var. *Lowæ*, *Lowe.*
- var. *Lowæ capitatum*, *Lowe.*
- var. *Medusæ ramocristatum*, *Hort.*
- var. *multifidum*, *Moore.* Lowe, Nat. Ferns, ii. t. 36.
- var. *multifidum laxum*, *Jones.*
- var. *nodosum*, *Jones.*
- var. *nodosum multifidum*, *Jones.*
- var. *nodosum nanum*, *Jones.*
- var. *nodosum ramulosum*, *Jones.*
- var. *nodosum truncatum*, *Jones.*
- var. *orbiculatum*, *Lowe.* Nat. Ferns, ii. 127.
- var. *pannosum*, *Moore.* Lowe, Nat. Ferns, ii. 78.
- var. *pannosum cristatum*, *Jones.*
- var. *Parsonsiæ*, *Moore.* Lowe, Nat. Ferns, ii. 79.
- var. *paucidentatum cristatum*, *Mapp.*



Asplenium, L.—*cont.*

A. *Filix-fœmina*, Bernh.—*cont.*

- var. *pectinatum*, Moore.
- var. *pectinatum Stableri*, Mapp.
- var. *percristatum*, Lowe.
- var. *perfectum*, Carbonell.
- var. *phyllomanes*, Mapp.
- var. *plumosum*, Moore.
- var. *plumosum divaricatum*, Moore.
- var. *plumosum Edwardsi*, Sim.
- var. *plumosum elegans*, Parsons.
- var. *plumosum Hodgsonæ*, Lowe.
- var. *polydactylon*, Moore.
- var. *polydactylon cristatum*, Stansf.
- var. *polydactylon grandiceps*, Jones.
- var. *proteoides*, Lowe.
- var. *proteum*, Clap.
- var. *proteum cristatum*, Jones.
- var. *pulcherrimum*, Jones.
- var. *pulcherrimum cristatum*, Jones.
- var. *Pulleri*, Moore.
- var. *purpureum corymbiferum*, Hort.
- var. *rectangulare*, Moore.
- var. *reflexum*, Woll.
- var. *refractum*, Moore.
- var. *regale*, Moore.
- var. *rhæticum*, Deakin. Lowe, Nat. Ferns, ii. 128.
- var. *rhæticum reflexum*, Mapp.
- var. *rotundatum*, Woll.
- var. *rotundatum lunulatum*, Carbonell.
- var. *setigerum*, Jones.
- var. *Stableri*, Lowe.
- var. *Stansfieldii*, Lowe.

Asplenium, L.—cont.**A Filix-fœmina, Bernh.—cont.**

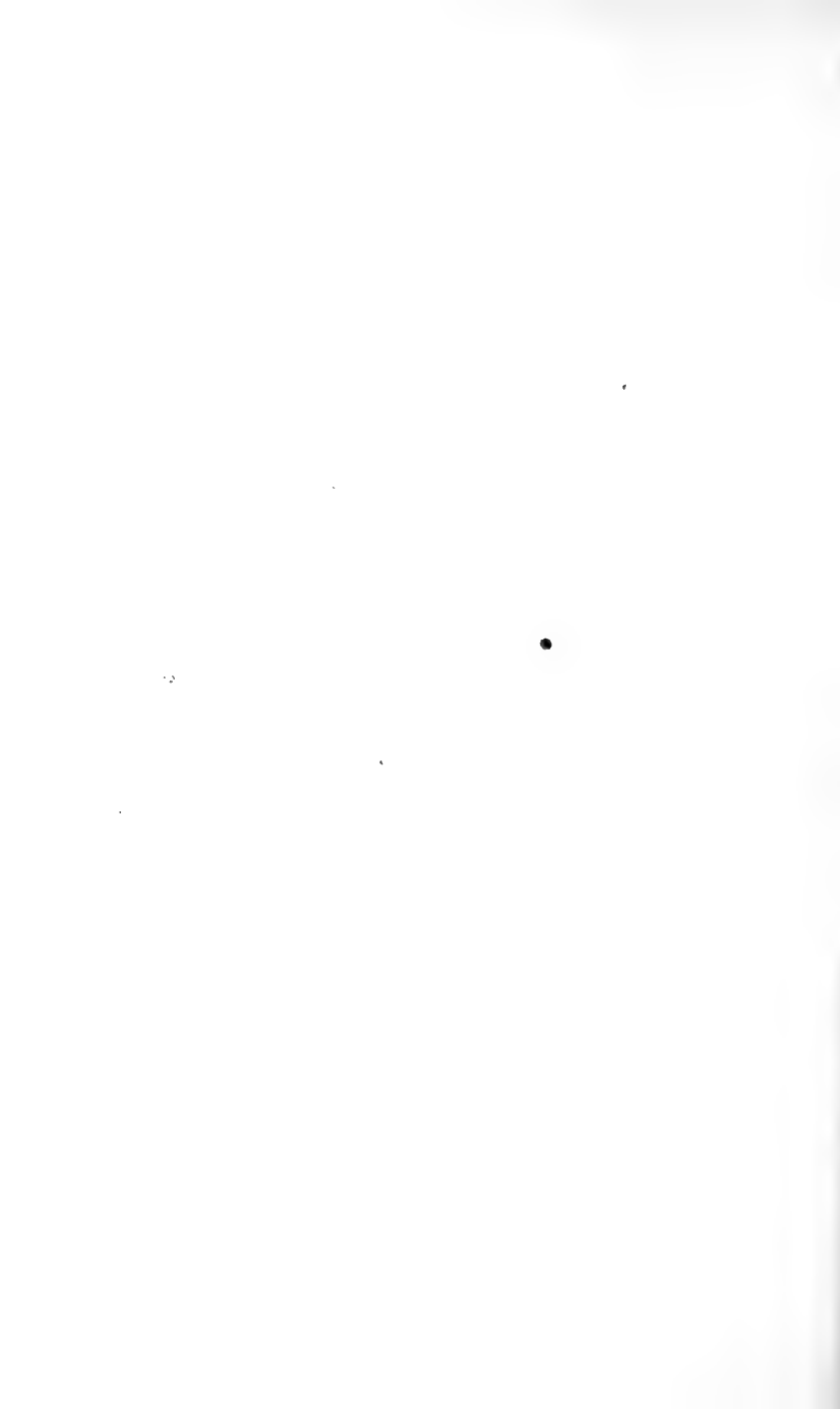
- var. stipatum, *Moore*.
- var. stipatum capitatum, *Carbonell*.
- var. suberuciatum, *Hort*.
- var. todeoides, *Stansf*.
- var. tortile, *Moore*.
- var. torto-cristatum, *Carbonell*.
- var. torto-grandiceps, *Carbonell*.
- var. truncato-pinnulum, *Jones*.
- var. Tyermanni, *Hort*.
- var. unco-cristatum, *Jones*.
- var. unco-ramulosum, *Stansf*.
- var. variegatum, *Woll*.
- var. Vernoniæ, *Jervis*. Lowe, Nat. Ferns, ii. 93.
- var. Vernoniæ corymbiferum, *Stansf*.
- var. Vernoniæ crispum, *Stansf*.
- var. Vernoniæ cristatum, *Mapp*.
- var. Victoriæ, *Lowe*. Nat. Ferns, ii. 97.
- var. Williamsii, *Jones*.

Cystopteris, Bernh.**C. fragilis, Bernh.**

- var. angustata, *Smith*.
- var. dickieana, *Moore*.

Nephrodium, L. C. Rich.**N. Filix-mas, L. C. Rich.**

- var. attenuatum, *Padley*.
- var. Barnesii, *Moore*. Lowe, Nat. Ferns, i. 272.
- var. Bollandæ, *Moore*.
- var. capitatum, *Carbonell*.



Nephrodium, L. C. Rich.—cont.

N. Filix-mas, L. C. Rich.—cont.

- var. *concinnum*, *Hort.*
- var. *crispatissimum*, *Jones.*
- var. *crispulatum*, *Hort.*
- var. *crispum*, *Sim.* Lowe, Nat. Ferns, i. 248.
- var. *crispum gracile*, *Lyell.*
- var. *Crista-Galli*, *Carbonell.*
- var. *cristatum*, *Lowe.*
- var. *cristatum angustatum*, *Moore.*
- var. *cristatum caudatum*, *Ivery.*
- var. *cronkleyense*, *Lowe.*
- var. *depauperatum*, *Padley.*
- var. *digitatum*, *Lowe.*
- var. *Ellacombei*, *Lowe.*
- var. *erosum*, *Clowes.* Lowe, Nat. Ferns, i. 248.
- var. *flexuosum polydactylon*, *Hort.*
- var. *fluctuosum*, *Moore.*
- var. *furcans*, *Moore.* Lowe, Nat. Ferns, i. 244.
- var. *grandiceps*, *Sim.* Lowe, Nat. Ferns, i. 275.
- var. *Ingrami*, *Moore.*
- var. *interruptum*, *Moore.* Lowe, Nat. Ferns, i. 242.
- var. *lineare*, *Woll.*
- var. *multiforme*, *Barnes.*
- var. *paleaceum*, *Hook.*
- var. *paleaceum cristatum*, *Moore.*
- var. *paleaceum cristatum intermedium*, *Sim.*
- var. *paleaceum ramo-furcillatum*, *Woll.*
- var. *paleaceum revolvens*, *Woll.*
- var. *polydactylum*, *Lowe.* Nat. Ferns, i. 257.
- var. *propinquum*, *Woll.*
- var. *propinquum cristatum*, *Moore.*
- var. *propinquum gracile*, *Moore.*

Nephrodium, L. C. Rich.—cont.**N. Filix-mas, L. C. Rich.—cont.**

- var. *propinquum grandiceps*, Moore.
- var. *propinquum imbricatum*, Hort.
- var. *propinquum parviceps*, Barnes.
- var. *propinquum polydactylum*, Barnes.
- var. *pseudo-mas*, Woll. See var. *paleaceum*.
- var. *Pulleri*, Jones.
- var. *ramo-cristatum*, Stansf.
- var. *ramo-furcillatum*, Carbonell.
- var. *ramosum*, Barnes.
- var. *revolvens*, Humphreys.
- var. *serratum cristatum*, Hort.
- var. *subcristatum*, Carbonell.
- var. *variegatum*, Lowe.
- var. *willyanum*, Hort.

N. spinulosum, Desv.

- var. *dilatatum*, Hook. Brit. Ferns, t. 19.
- var. *dilatatum angusti-pinnulum*, Sim. Lowe, Nat. Ferns, i. 313.
- var. *dilatatum calomelanos*, Jones.
- var. *dilatatum corymbiferum*, Hort.
- var. *dilatatum foliosum multicristatum*, Hort.
- var. *dilatatum foliosum ramosum*, Hort.
- var. *dilatatum grandiceps*, Barnes.
- var. *dilatatum Howardæ*, Jones.
- var. *dilatatum lepidotum*, Moore.

Osmunda, L.**O. regalis, L.**

- var. *cristata*, Moore.
- var. *palustris*, Hort.
- var. *purpurascens*, Moore.

Polypodium,³ *L.*

P. Phegopteris, *L.*

var. *cristatum*, *Jones*.

var. *strictum*, *Barnes*.

P. vulgare, *L.*

var. *acuto-serratum*, *Jones*.

var. *acutum*, *Moore*. Lowe, Nat. Ferns, i. 27.

var. *cambricum*, *Willd.* Lowe, Nat. Ferns, i. 32.

var. *cambricum Barrowi*, *Barnes*.

var. *cornubiense*, *Moore*.

var. *cornubiense elegantissimum*, *Stansf.*

var. *Elworthii*, *Ivery*.

var. *falcatum*, *Jones*.

var. *grandiceps*, *Hort*.

var. *macrostachya*, *O'Kelly*.

var. *multifido-cristatum*, *Stansf.* Lowe, Nat. Ferns, i. 43.

var. *omnilacerum*, *Moore*. Lowe, Nat. Ferns, i. t. 7B.

var. *pulcherrimum*, *Moore*. Lowe, Nat. Ferns, i. 46.

var. *ramosum*, *Moore*.

var. *semilacerum*, *Link.* Lowe, Nat. Ferns, i. 47.

var. *serratum*, *Moore*. Lowe, Nat. Ferns, i. 48.

var. *serratum elegans*, *Hort*.

var. *trichomanoides*, *Backh.*

Scolopendrium, *J. E. Sm.*

S. vulgare, *J. E. Sm.*

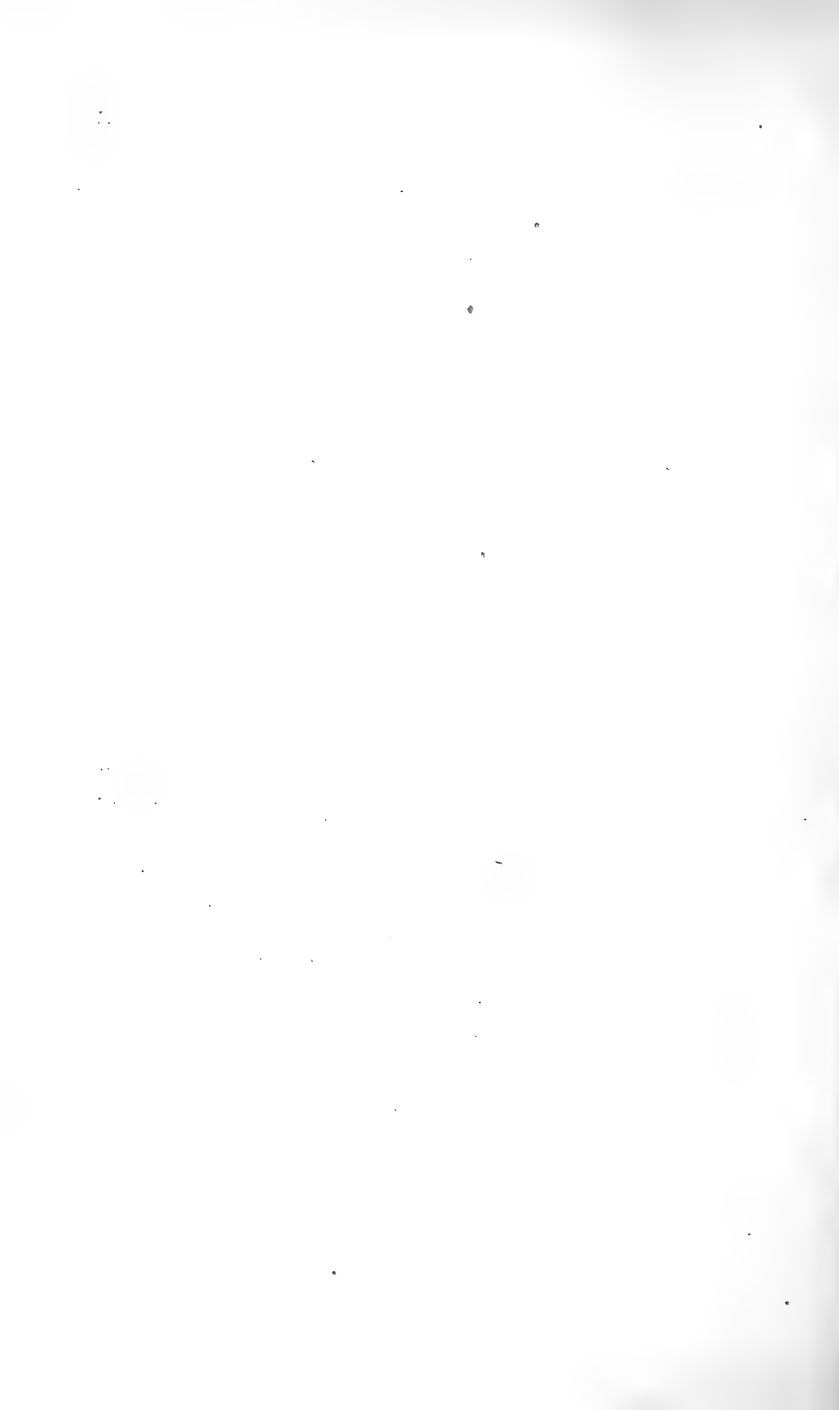
var. *aduncum*, *Moore*. Lowe, Nat. Ferns, ii. 354.

var. *crispum*, *Grey*.

var. *Crista-Galli*, *Woll.*

var. *Cuspis*, *Carbonell*.

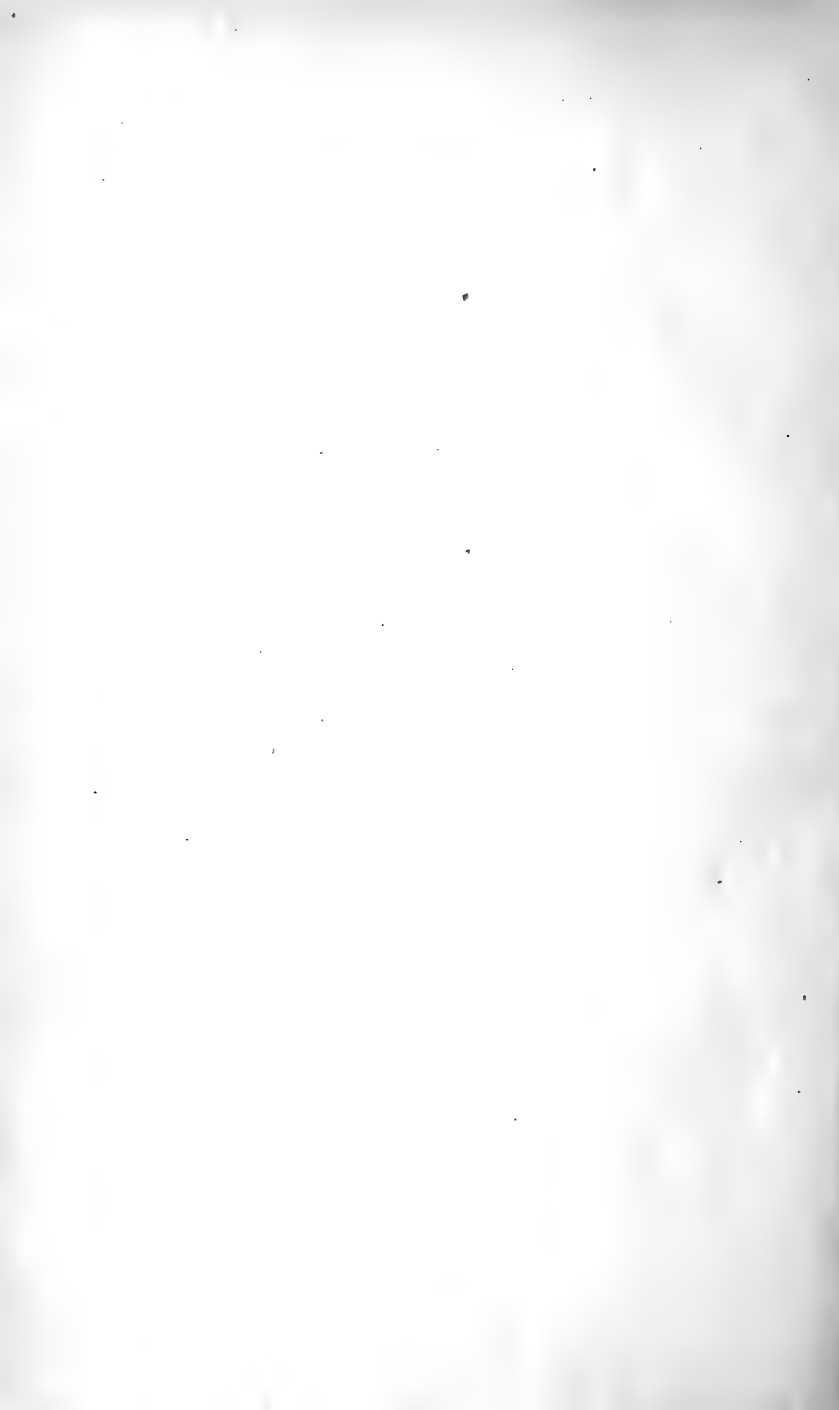
var. *fisso-crenatum*, *Jones*.



Scolopendrium, *J. E. Sm.*—*cont.*

S. vulgare, *J. E. Sm.*—*cont.*

- var. *grandiceps*, *Jones*.
 - var. *illustre*, *Lowe*.
 - var. *involvens*, *Mapp*.
 - var. *labyrinthicum*, *Lowe*.
 - var. *laceratum*, *Moore*.
 - var. *macrosorum*, *Moore*.
 - var. *marginatum*, *Moore*.
 - var. *Cenone*, *Hort*.
 - var. *peraferens*, *Woll*.
 - var. *peraferens ovale*, *Hort*.
 - var. *ramulosissimum*, *Woll*.
 - var. *scalpturatum*, *Moore*. *Lowe*, *Nat. Ferns*, ii. 249.
 - var. *submarginato-fissum*, *Wills*.
 - var. *undulatum cochleatum*, *Jones*.
 - var. *variegatum*, *Woll*. *Lowe*, *Nat. Ferns*, ii. 333.
 - var. *Veloisii*, *Moore*.
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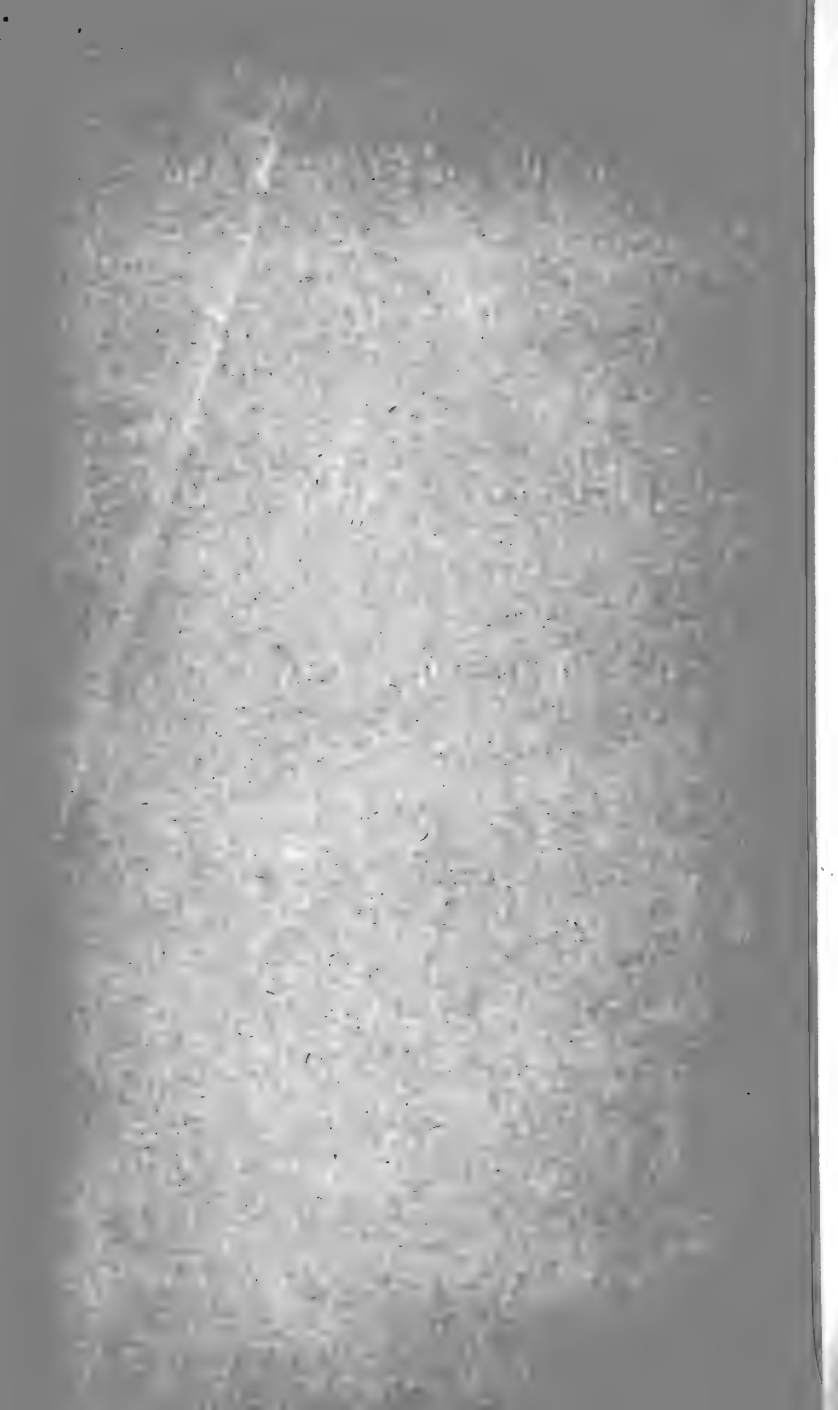


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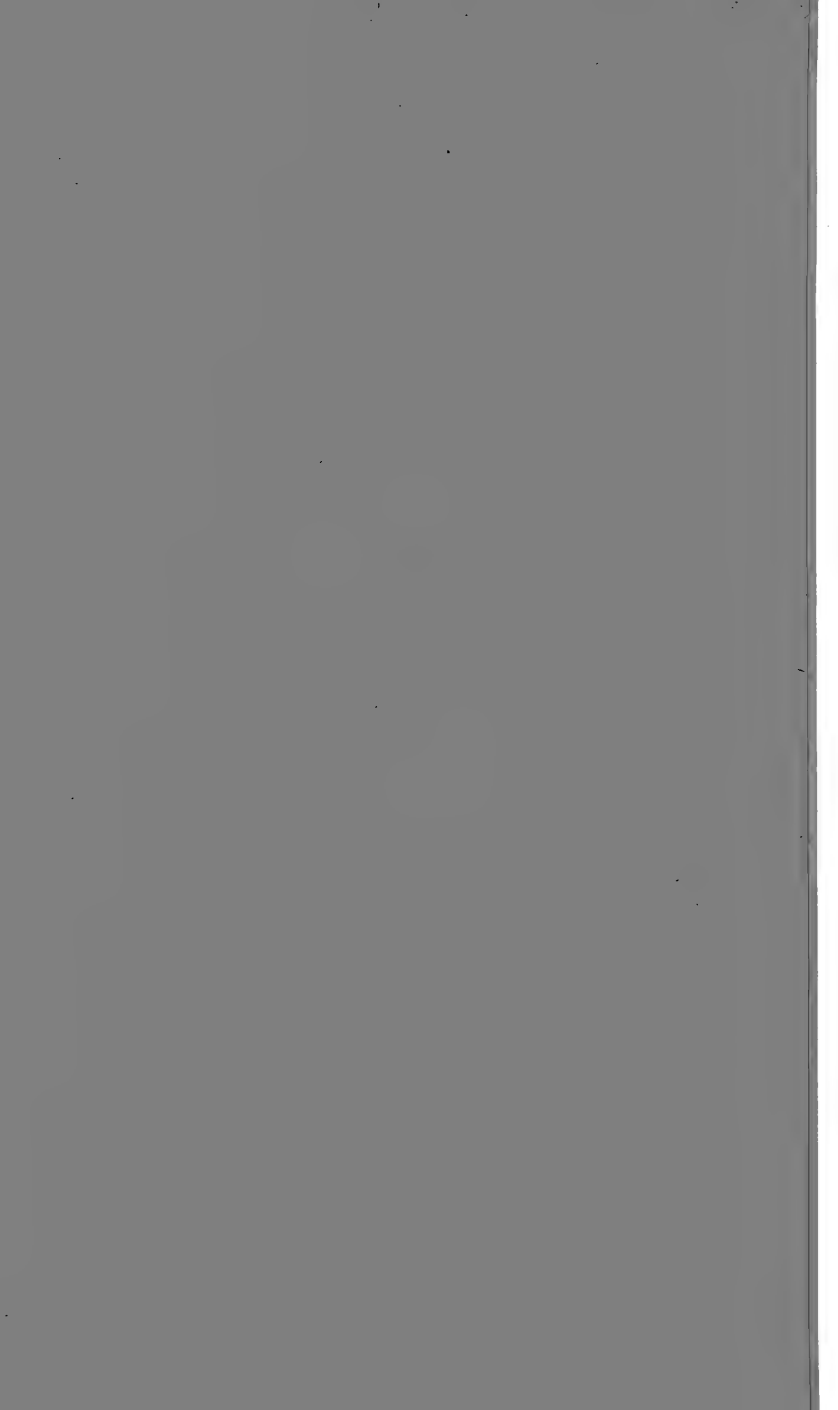
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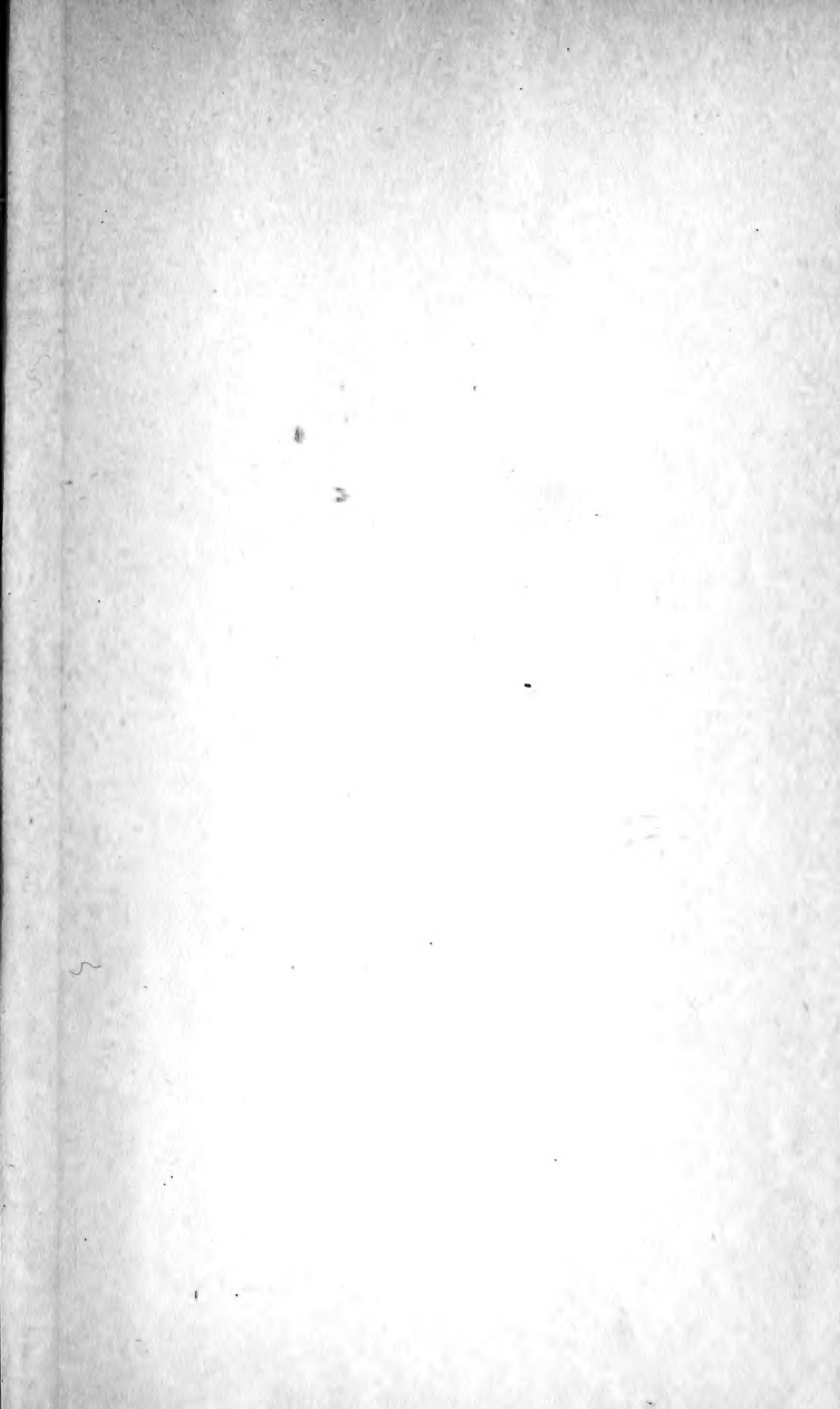
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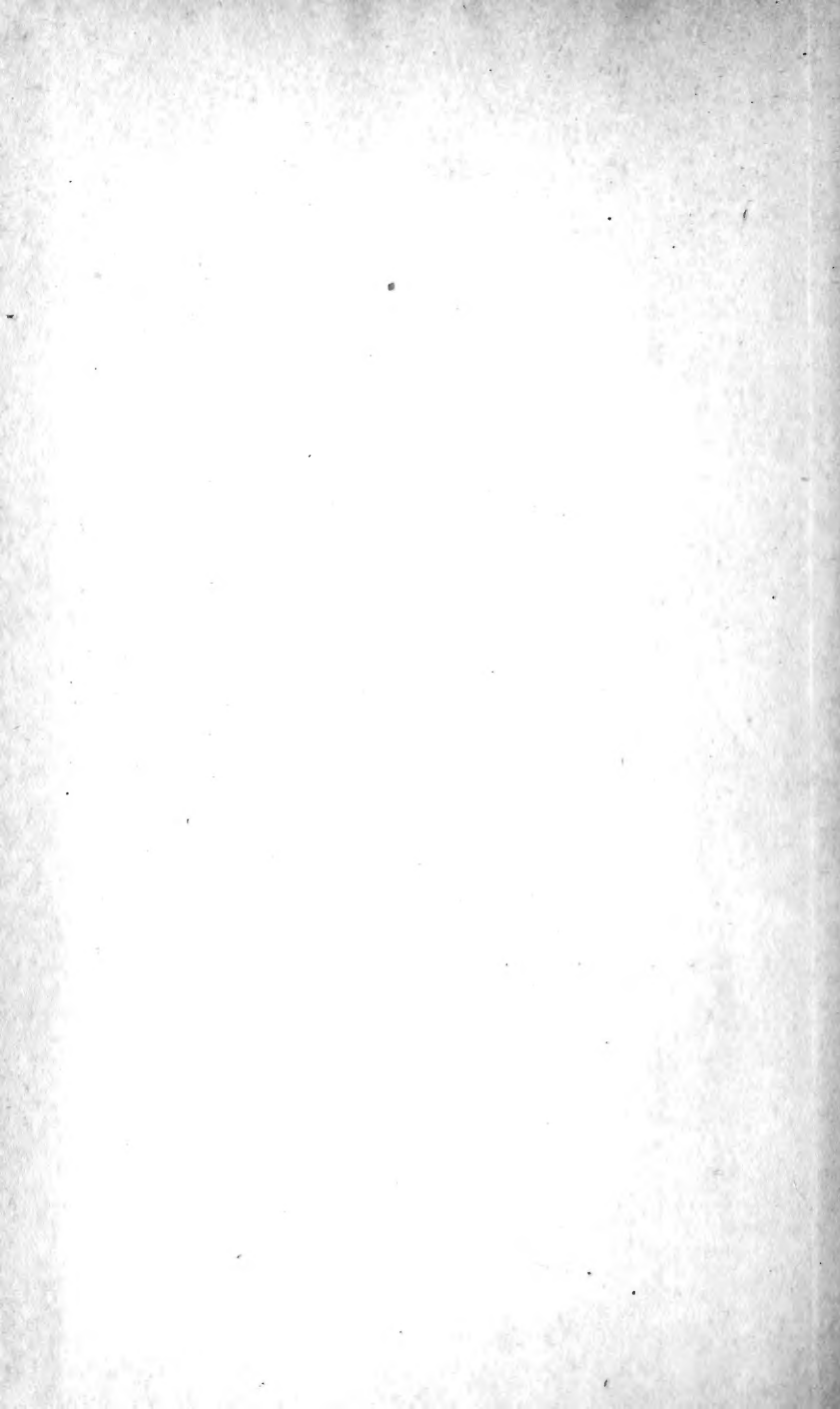
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